

**FMC Corporation** 2929 Walnut Street Philadelphia, PA 19104 USA

215.299.6000 fmc.com

#### Sent Via Email

April 10, 2024

Elizabeth Kaptein Region 8 New York State Department of Environmental Conservation 6274 East Avon-Lima Road Avon, NY 14414

Re: Submittal Dublin Road Decommissioning Report

FMC Dublin Road Site, #8-37-001

Dear Ms. Kaptein:

This letter transmits the Decommissioning Report for the FMC Dublin Road Site located at 10619 Dublin Road (the "Site"). Decommissioning of the site was performed in accordance with the site Decommissioning Work Plan, dated March 22, 2022, and approved by New York State Department of Environmental Conservation (NYSDEC) on May 16, 2023. By email dated, August 21, 2023, the NYSDEC and United States Environmental Protection Agency (USEPA) were notified that decommissioning work would begin on August 28, 2023. Decommission activities were completed on December 14, 2024.

Please contact me at (215) 299-6252 if you have any questions or need additional information.

Sincerely,

Chris Moretti

Remediation Project Manager

**FMC** Corporation

Chie Great

Enclosure

ec: Dave Pratt, NYSDEC Region 8 – Avon Young Chen, USEPA – Region 2 NYC Elizabeth McConnell, USEPA Kristen Kulow, NYSDOH Justin Deming, NYSDOH. M. Iddings, FMC Philadelphia

H. Philip/J. Poulsen, Parsons



# **DECOMMISSIONING REPORT**

# DUBLIN ROAD SITE ORLEANS COUNTY, NEW YORK

#### Prepared For:



FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

#### Prepared by:



40 La Riviere Drive, Suite 350 Buffalo, New York 14202 Telephone: (716) 541-0730 Fax: (716) 541-0760

**April 2024** 

Parsons PN 453515



# TABLE OF CONTENTS

1	INTRODUCTION	1
	HEALTH AND SAFETY	
	2.1 Health and Safety Plan	
	2.2 Community Air Monitoring Plan	
	WELL ABANDONMENT	
4	REMOVAL OF GROUNDWATER EXTRACTION AND TREATMENT SYSTEM EQUIPMENT	4
	4.1 Cleaning and Waste Disposal	4
	4.2 Final Site Cleanup and Security	5
	4.3 Site Management Plan	5
5	REFERENCES	6

# LIST OF FIGURES

Figure 1 Site Plan (Pre-Decommissioning)
Figure 2 Site Plan (Post Decommissioning)

# LIST OF APPENDICES

Appendix A Work Plan Approval
 Appendix B Weekly Field Reports
 Appendix C Well Decommissioning Records
 Appendix D Scrap Metal Recycling Record
 Appendix E Carbon/Filter Media and Filter Cake Disposal Records
 Appendix F Debris Disposal Records



# LIST OF ACRONYMS

ACRONYM	DEFINITION
BHC	Benzene hexachloride
CAMP	Community Air Monitoring Plan
DNOC	Dinitro-ortho-cresol
EW	Groundwater extraction well
FMC	FMC Corporation
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response Standards
MW	Groundwater monitoring well
NELAP	National Environmental Laboratory Accreditation Program
NWC	NW Contracting
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PRR	Periodic Review Report
RCRA	Resource Conservation and Recovery Act
Site	Dublin Road Site
SMP	Site Management Plan
SVOC	Semivolatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound



# 1 Introduction

This report documents the activities completed during decommissioning of the on-site groundwater extraction and treatment system at the Dublin Road Site (Site) on Dublin Road in Medina (**Figure 1**), New York, and known by New York State Department of Environmental Conservation (NYSDEC) Site Number 8-37-001.

From November 1996 through May 2021, FMC Corporation (FMC) operated a groundwater extraction and treatment system at the Site. Use of the on-site groundwater extraction and treatment system ceased on May 29, 2012, as approved in a letter dated March 28, 2021 from NYSDEC, and as described in the FMC Dublin Road Site Management Plan (SMP; Arcadis 2014). Section 2.2.1.3 of the SMP states that after five years of shutdown, "FMC may propose dismantlement of the extraction well pumping systems and groundwater treatment plant." Consistent with this fact, FMC has noted in its annual submissions pursuant to the SMP that it was considering proceeding with such action.

By letter dated October 5, 2021, FMC provided to the NYSDEC a work plan for the decommissioning of the groundwater extraction and treatment system. The work plan included a 60-day Advance Notification of Change of Use. By letter dated, March 22, 2022 the NYSDEC responded to the work plan with comments and requests for additional information. In response to the March 22, 2022, letter, FMC provided a response by letter and revised work plan dated April 20, 2022 (Decommissioning Work Plan). The NYSDEC responded by letter dated May 16, 2023 (Appendix A), as follows:

"...the NYSDEC and NYSDOH (the Departments) and the USEPA have reviewed the Decommissioning of the Groundwater Extraction and Treatment System Work Plan (the Work Plan) submitted April 20, 2022, associated with the change of use dated October 5, 2021. The Work Plan meets the requirements provided in Part 375-1.6, DER 10 section 1.4 for the change of use, and the Site Management Plan (SMP) requirements for the evaluation of the decommissioning of groundwater extraction system. The Departments accept the Work Plan with the understanding that a revised SMP, using the most current site management guidance, will be submitted to the Departments and the USEPA along with the 2023 PRR [periodic review report] for review."

By email dated, August 21, 2023, the NYSDEC and United States Environmental Protection Agency (USEPA) were notified that decommissioning work, starting with well abandonment, would begin on August 28, 2023. This report documents the activities that were completed in accordance with the approved Decommissioning Work Plan.



# 2 Health and Safety

# 2.1 Health and Safety Plan

The Health and Safety Plan (HASP) included in the Decommissioning Work Plan describes minimum health and safety requirements to be followed during work conducted as part of Resource Conservation and Recovery Act (RCRA) corrective action activities or associated with existing Interim Corrective Measures at the FMC Corporation (FMC) Dublin Road site located in Orleans County, New York (Site).

Work activities that were completed as part of the decommissioning project had the potential to come into contact with contaminated environmental media (soil, sediment, or water) at the Site and were subject to the health and safety requirements specified in the HASP as well as the Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response Standards (OSHA HAZWOPER) rules and regulations. Such work included:

- Ground-invasive activities within the Site.
- Removal of buried utilities and power poles.
- Construction and demolition of Site structures and appurtenance.
- Sampling and handling of contaminated environmental media.
- Management of contaminated environmental media.

During the course of the decommissioning work, the requirements of the HASP were reviewed on a daily basis with the project team and activities were documented in daily as well as life critical activities permits. Documentation is retained in the project files. There were no safety incidents reported during the course of the project. A record of the weekly activities taking place on site are included in the weekly summary reports (**Appendix B**).

# 2.2 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) is included in the HASP and was implemented whenever soils were disturbed. The CAMP requires real-time monitoring of volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when ground intrusive activities are in. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. Exceedance of the action levels specified in the CAMP require increased monitoring, corrective actions to abate emissions, and/ or work shutdown. Exceedances of action levels listed in the CAMP, included as part of the site-specific HASP, are reportable to NYSDEC and NYSDOH.

The only activities included in the decommissioning work where there was a disturbance of site soils was during the abandonment of the groundwater monitoring wells (MW) (August 28 through August 29, 2023). During the well abandonment work, air monitoring was completed in accordance with the CAMP. This included the use of a PDR-1000 dust monitoring and a MiniRae multi-gas meter. There were no detections of compounds using the multi-gas meter and all dust readings were below the action limits.



# 3 Well Abandonment

In accordance with the Decommissioning Work Plan, FMC decommissioned and abandoned the 11 bedrock groundwater extraction wells that were situated within areas where the soil remedial action objectives have been achieved. A summary of the wells to be abandoned, including their size and depths, was included in the work plan.

NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells and three groundwater monitoring wells, as follows:

Extraction Wells	Monitoring Wells
EW-1	MW-35
EW-2	MW-43
EW-3	MW-50
EW-4	
EW-5	
EW-6	
EW-8	
EW-9	
EW-10	
EW-11	
EW-12	

Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. At the time of the decommissioning, all of the wells were found to be in good condition with open bore holes.

The wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Well abandonment was accomplished by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings and removed them to the deeper of either bedrock or 5- feet below ground surface. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well decommissioning records are included in this report in **Appendix C**.



# 4 Removal of Groundwater Extraction and Treatment System Equipment

The groundwater extraction well pumping and monitoring equipment, force main piping, and groundwater treatment equipment (i.e., sand filters, clarifier, filter press, groundwater holding tanks) situated within the water treatment building were removed, cleaned, and disposed of between August 16, 2023 and December 14, 2023.

Parsons and their contractor (CF Wolcott General Contracting Inc.) disassembled, cleaned, and disposed of the groundwater collection and treatment equipment. A summary of the work completed is included in the weekly field reports (**Appendix B**).

# 4.1 Cleaning and Waste Disposal

The removed equipment that came in contact with extracted groundwater was triple rinsed using an Alconox detergent-based solution, followed by rinsing with potable water. Following cleaning, a sample of potable water was passed through the piping and collected for analysis. The rinsate sample was submitted to Eurofins Test America Laboratories in Amherst New York (National Environmental Laboratory Accreditation Program (NELAP) #10026) and analyzed for the following parameters:

Analytical Parameters	<b>Analytical Method</b>
Total BHC Isomers	USEPA Method 8081B
Total Metals (As, Cu, Pb, Zn)	USEPA Method 200.7
Total Chlorinated Pesticides (DDT/DDD/DDE)	USEPA Method 8081B
Total Herbicides (2,4-D, 2,4,5-TP[Silvex])	USEPA Method 8151A
TCLP VOCs (including methylene chloride)	USEPA Method 8260C
TCLP SVOCs	USEPA Method 8270D
TCLP Metals (including mercury)	USEPA Method 6010C/7470A
RCRA Characteristic Parameters	
(reactivity, corrosivity, and ignitability)	

Based on the analytical results, all of the cleaned metals were recycled as nonhazardous. By letter dated November 20, 2023, FMC notified the NYSDEC of its intent to recycle the material under the scrap metal exemption of 6 New York Codes, Rules, and Regulations (6NYCRR) 371.1(e)(1)(xiii). Pursuant to this exemption, the processed scrap metal intended for recycling is not defined as a solid waste under the applicable RCRA regulations. Three roll off containers of scrap metal were shipped to Metalico, Inc., in Buffalo, New York. Copies of the C-7 submittal, rinsate analytical results, and disposal records are included as **Appendix D**.

Spent carbon, filter cake, and multimedia were removed from the vessels and equipment prior to cleaning and disposal. A total of thirteen 55-gallon drums of spent activated carbon and five drums of combined multimedia and filter cake were recovered. A sample from each of the two waste streams was submitted to Eurofins Test America Laboratories in Amherst, New York (NELAP#10026) and analyzed for the parameters in the following table:

<b>Analytical Parameters</b>	<b>Analytical Method</b>
TCLP VOCs (including methylene chloride)	USEPA Method 8260C
TCLP SVOCs (including DNOC and dinoseb)	USEPA Method 8270D
TCLP Metals (including mercury)	USEPA Method 6010C/7470A



<b>Analytical Parameters</b>	Analytical Method
TCLP Chlorinated Pesticides	USEPA Method 8081B
TCLP Chlorinated Herbicides	USEPA Method 8151A
Carbofuran	USEPA Method 8270D
RCRA Characteristic Parameters (reactivity, corrosivity, and ignitability)	

By letter dated November 21, 2023, FMC requested that the NYSDEC provide a contained-in determination for both the spent carbon and the filter cake/multimedia waste streams. By email dated December 4, 2023, the NYSDEC notified FMC that the spent carbon was not an environmental media and therefore not subject to a hazardous waste determination. The contained-in request was revised to include only the filter cake/multimedia and resubmitted to the NYSDEC by letter dated December 18, 2023. By letter dated January 4, 2024, the NYSDEC provided an approval for disposal of the material at the Modern Landfill in Model City, New York. Based on the analytical results, FMC determined that the spent carbon was nonhazardous; it was disposed of at the Modern Landfill in Model City, New York, in February 2024. Copies of the contained-in determination for filter cake/multimedia, analytical reports and Modern Landfill approvals for both the spent carbon and the filter cake/multimedia waste streams are included in **Appendix E**.

All debris (fiberglass insulation, concrete pads, instrumentation), from the decommissioning activities that was not in contact with contaminated water, and cleaned plastic tanks and piping was staged in roll off containers and disposed of at Modern Landfill in Model City, New York. Disposal records are included in **Appendix F**.

All rinsate water generated during this project has been staged into the remaining poly tank at the facility. The tank is also used for the storage of well purge water and land fill sump pump outs. When the tank is full, the water will be characterized, and the contents disposed of as approved by the NYSDEC.

No material quantities of water treatment chemicals were encountered during the decommissioning. There were two plastic tanks labeled as containing hydrochloric acid and peroxide. On further investigation, it was determined that the chemical contents had been removed and the observed residuals consisted of rinse water. The remaining rinse water was removed to the storage tank.

The water treatment building was heated using propane. Drum Oil and Propane removed the remaining contents of the propane storage tank and removed the tank from the property. There were no fuel oils present in the building.

# 4.2 Final Site Cleanup and Security

Following the removal and disposal of the equipment, the former treatment building was cleaned and will be maintained to support the on-going Site monitoring work in accordance with the Site Management Plan. One poly tank was left in the building, which will continue to be used to contain water from well purging and underdrain pumping. The filter press was also cleaned and remains in the building. The Site Plan has been revised to depict the current Site conditions (**Figure 2**).

#### 4.3 Site Management Plan

As part of the next Periodic Review Report (PRR), FMC will provide the NYSDEC with a site management plan as the NYSDEC requested in the Decommissioning Work Plan approval.



# **5** References

Arcadis. 2014. FMC Dublin Road Site Management Plan.

NYSDEC. 2009. CP-43 Groundwater Well Decommissioning Policy. November.

Parsons. 2022. Decommissioning of the Groundwater Extraction and Treatment System Work Plan. April.





Memorandum to File

**SUBJECT:** ...... Dublin Road Well Abandonment Update Job No. 453515

**PROJECT MGR...**Jeffrey Poulsen TO: .....Chris Moretti

Report #001 Date: WE 8/28/2023 FROM: .....Jeff Poulsen

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

### Project milestones this week:

- Completed the removal of vegetation blocking access to the eleven wells and 3 monitoring wells scheduled to be abandoned.
- Completed the removal of piping and appurtenances associated with the extraction wells to allow access to the wells for abandonment and removal.
- Complete well abandonment in accordance with CP-43

NYSDEC: on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that well abandonments would be started on August 28, 2023.

# **Health and Safety:**

The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included stinging insect, working with dusty materials, and poisonous plants. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

# Field Work Summary:

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils.

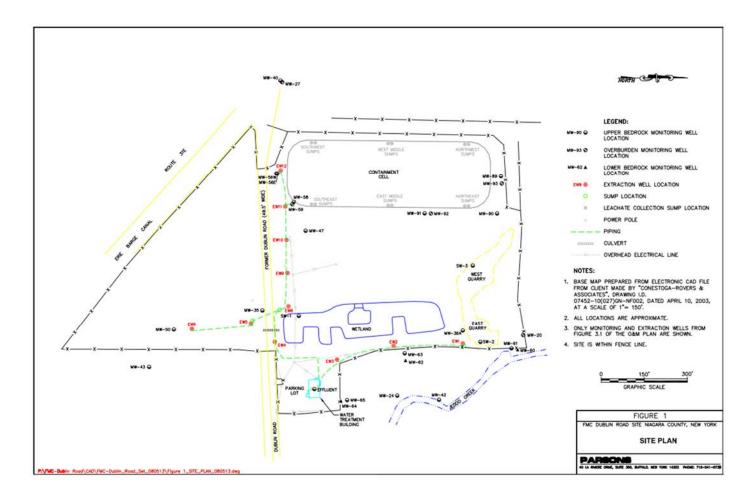
## **Activities Upcoming:**

There are no scheduled activities at this time. Parsons is reviewing the electrical requirements of the remediation building and will provide FMC with a recommendation.





# **Project Photos**









Extraction Well EW-4 prior to abandonment.



Extraction Well EW-4 prior to abandonment following grouting and removal of appurtenances and well casing.







EW-5 prior to removal of vegetation



EW-5 following removal of vegetation.







EW-5 following removal of piping and well abandonment.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Report #002

 FROM:
 as of 10/17/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

# **Project milestones to Date:**

- Completed the removal of vegetation blocking access to the eleven wells and 3 monitoring wells scheduled to be abandoned.
- Completed the removal of piping and appurtenances associated with the extraction wells to allow access to the wells for abandonment and removal.
- Complete well abandonment in accordance with CP-43
- National Grid disconnected the electrical service to the Site

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

## **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included stinging insect, working with dusty materials, poisonous plants, working at heights, use of hand tools. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

#### **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons collected sampled of the spent carbon and filter cake to be analyzed and profiled for disposal. This material was initially sampled in December 2014 and found to be non-hazardous. This re-sample it to update the data and will be submitted to the NYSDEC as part of a contained in determination request.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been inContact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3<sup>rd</sup> full.

# **Activities Upcoming:**

- A dumpster has been ordered for the management of debris including plastic piping which has met the RCRA cleaning requirement. (delivery scheduled for 10/18/2023)
- Wolcott is continuing to remove outside equipment for cleaning and disposal.

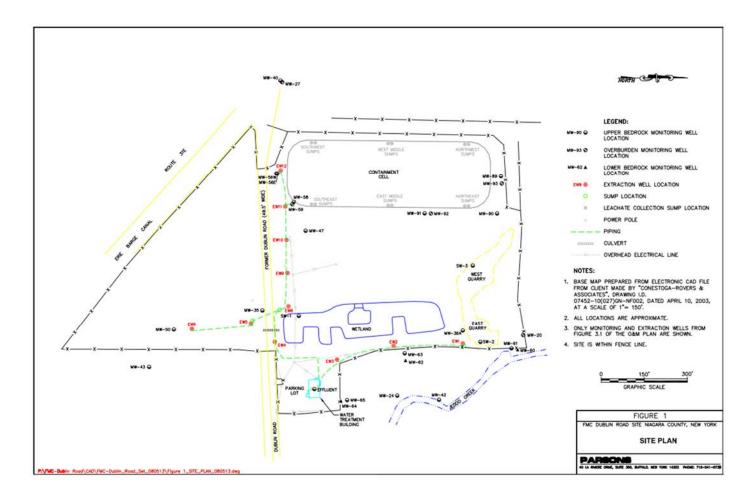
## **Current Waste On Hand**

10 Drums of spent carbon3 Drums of filter cakeDrums of multimedia1 Roll of scrap metals1 Roll off of non-hazardous debris





# **Project Photos**









Extraction Well EW-4 prior to abandonment.



Extraction Well EW-4 prior to abandonment following grouting and removal of appurtenances and well casing.







EW-5 prior to removal of vegetation



EW-5 following removal of vegetation.







EW-5 following removal of piping and well abandonment.



Disconnected transformers feeding the plant







One of two carbon vessel which have been drained and carbon removed



Propane tank emptied and removed by Drum Oil and Propane







Remains of the old electrical panel with the main feed. Note that the electrical meter was removed by National Grid.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #003

 FROM:
 ......Jeff Poulsen
 as of 11/6/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

# **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

# **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at Heights, working in tight space, powered hand tools/chainsaw. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

# **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-5 run and the RW-12 run from the wells to the WTP.
- 90 percent completed the removal of the force main and ancillary equipment from the northern wells (EW-1, 2, 3)
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.

## **Activities Upcoming:**

- Wolcott is continuing to remove outside equipment located north of the WTP for cleaning and disposal. Outside work is expected to be complete by 11/10/2023.
- Parsons is removing smaller equipment from inside the WTP including electrical, process and piping.
- Wolcott will start to work inside for the cleaning and removal of larger pieces of treatment equipment.

#### **Current Waste On Hand**

- 10 Drums of spent carbon analytical data pending
- 3 Drums of filter cake analytical data pending
- 3 Drums of multimedia analytical data pending

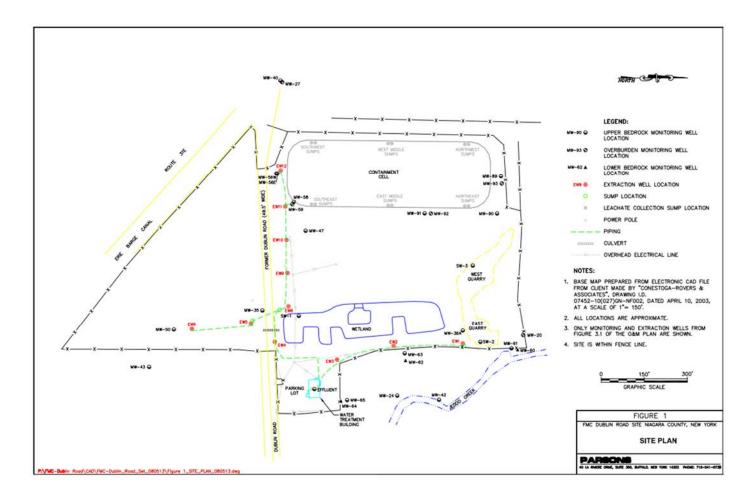
Decommissioned force main piping – analytical data pending

- 1 Roll off of scrap metals
- 1 Roll off of non-hazardous debris is full and being shipped out (11/7/2023)





# **Project Photos**









Continued cleaning and removal of equipment from inside the building



Continued cleaning and removal of equipment from inside the building



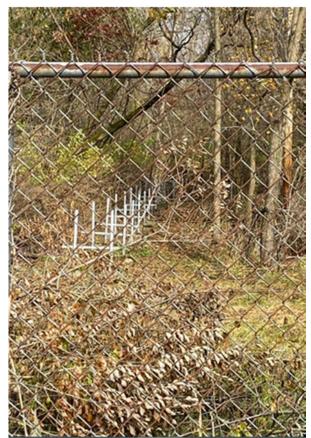




Removal of pipeline and appurtenances is completed for the force main from the east side back to the treatment plant building.







Completed removal of the force main and appurtenances from the north side of the side to the water treatment building. Stanchions still to be collected.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #004

 FROM:
 as of 11/7/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

# **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

# **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at Heights, working in tight space, powered hand tools/chainsaw. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

# **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.
   Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.

# **Activities Upcoming:**

- Wolcott has completed the removal of outside equipment.
- Parsons and Wolcott are continuing with the removal of equipment from inside the building including the skid mounted treatment units, tanks and electronics.
- There are no site activities planned for the week of November 20-24, 2023. Work will continue on November 27, 2023.
- Work is progressing on schedule, and we expect that field work will be completed in early December 2023.

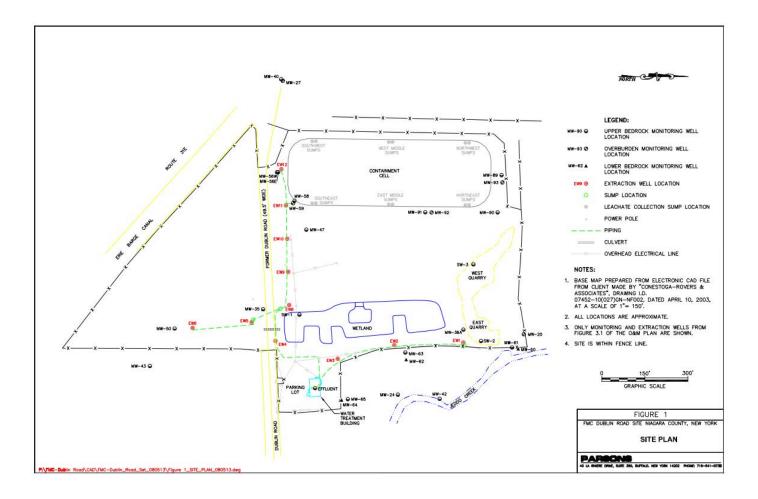
#### **Current Waste On Hand**

- 10 Drums of spent carbon disposal pending NYSDEC approval of contained-in
- 3 Drums of filter cake disposal pending NYSDEC approval of contained-in
- 3 Drums of multimedia disposal pending NYSDEC approval of contained-in
- Decommissioned force main piping analytical data complete and C-7 pending
- 1 Roll off of scrap metals
- 1 Roll off of non-hazardous debris is partially full





# **Project Photos**









Continued cleaning and removal of equipment from inside the building.
Showing the multimedia filters



Continued cleaning and removal of equipment from inside the building







Scrap metal accumulated in the roll off container.



Filled in groundwater collection sumps.







Completed removal of the force main and stanchions





**Memorandum to File** 

SUBJECT: ...... Dublin Road Decommissioning Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #005

 FROM:
 as of 12/02/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

# **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at heights, working in tight space, powered hand tools/chainsaw, hot work.

# **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.
- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no





electrical to any equipment. Grid will return to remove the feed wire from the pole.

- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.
   Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.
- 90% completed the removal of equipment from the WTP building.
- Completed removal of outside electrical wiring and equipment.
- Removed an additional roll off container of scrap metal to Metalico under the C-7 exemption.

#### **Activities Upcoming:**

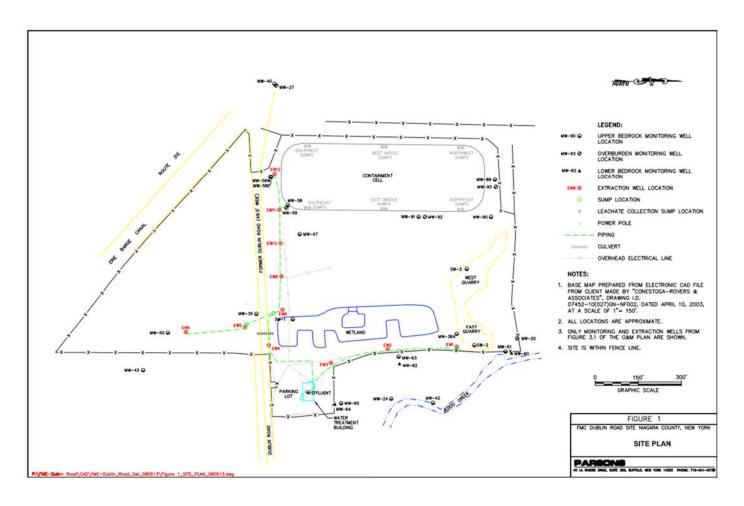
- Parsons and Wolcott are continuing with the removal of the clarifier. The only equipment being left in the building is the small filter press and one poly tank for the collection of water from the monthly pump outs.
- Wolcott is planning to demobilize by the end of this week.
- Removal of the drum of carbon/filter cake and filtration media is pending contained-in approval from the NYSDEC.

#### **Current Waste On Hand**

- 14 Drums of spent carbon disposal pending NYSDEC approval of contained-in
- 5 Drums of filter cake/filtration media disposal pending NYSDEC approval of contained-in
- 1 Roll off of scrap metals is full and awaiting a container swap out.
- 1 Roll off of non-hazardous debris is partially full.













Cutting up old clarifier for cleaning and disposal



Remnants of equipment in water treatment building. Tank will remain.







Former location of the metals precipitator and multimedia filters





Memorandum to File

SUBJECT: ...... Dublin Road Decommissioning Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #006

 FROM:
 as of 12/14/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.
- Completed the removal of all inside equipment.
- Completed the removal of all outside electrical equipment.
- Completed the restoration of the 2,000-gal poly tank inside of the building for groundwater storage

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

On December 13, 2023, a call was held with Parsons, FMC and Alison Egbon and Henry Wilkie of NYSDEC Bureau of Materials Management regarding the disposal of spent carbon and filter cake/multimedia. NYSDEC confirmed that FMC can make the hazardous waste determination regarding the carbon and that NYSDEC needs to issue a contained in determination for the combined filter cake/multimedia.

#### **Health and Safety:**

The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at heights, working in tight space, powered hand tools/chainsaw, hot work.

#### Field Work Summary:

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a





cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.

- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping. Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.
- 90% completed the removal of equipment from the WTP building.
- Completed removal of outside electrical wiring and equipment.
- Removed an additional roll off container of scrap metal to Metalico under the C-7 exemption.
- Completed the removal of the clarifier structure which was the last piece of the inside equipment
  to be removed. All equipment has now been removed and placed in the trash roll off or the scrap
  roll off.
- Shipped a scrap roll off container to Metalico. There will be one final shipment.
- Drums of waste are being staged inside of the building until disposal.
- Wolcott completed their work and has demobilized.
- Demobilized the mobile lift platforms.

#### **Activities Upcoming:**

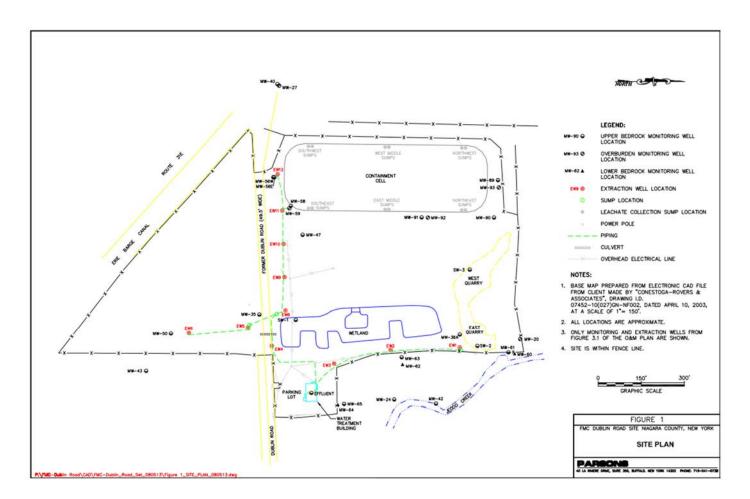
- Removal of the drum of carbon/filter cake and filtration media is pending contained-in approval from the NYSDEC. Parsons will revise the CI determination request for FMC review.
- Final clean up and securing of the building for winter.





#### **Current Waste On Hand**

- 15 Drums of spent carbon disposal pending hazardous waste determination and landfill
- 5 Drums of filter cake/filtration media disposal pending NYSDEC approval of contained-in
- 1 Roll off of scrap metals is full and awaiting disposal
- 1 Roll off of non-hazardous debris is partially full and ready for disposal









inside of former WTP with process piping and equipment removed except for groundwater holding tank and filter press



inside of former WTP with all process piping and equipment removed except for groundwater holding tank and filter press



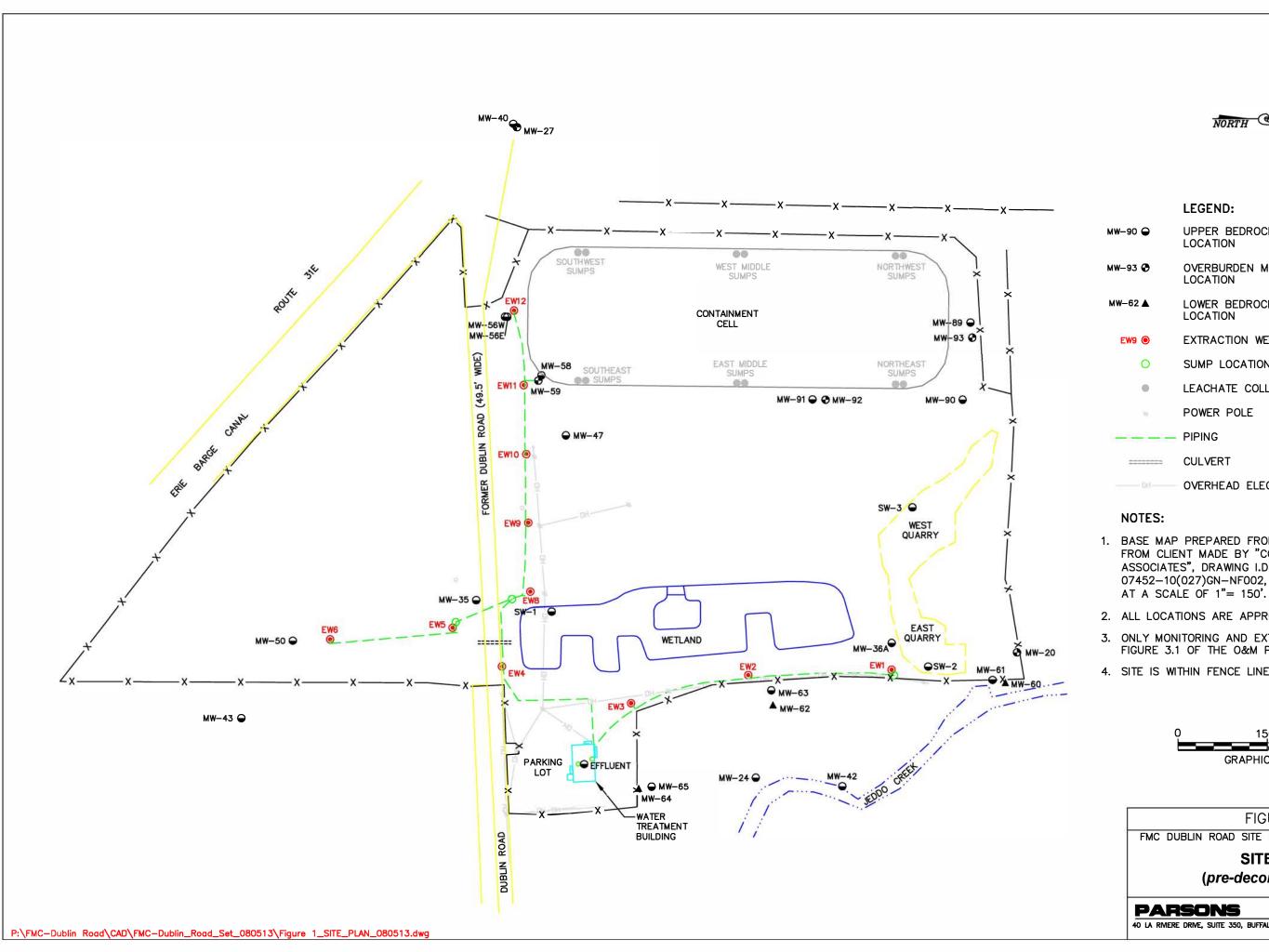




inside of former WTP with process piping and equipment removed except for groundwater holding tank and filter press



## **FIGURES**





UPPER BEDROCK MONITORING WELL

OVERBURDEN MONITORING WELL

LOWER BEDROCK MONITORING WELL

EXTRACTION WELL LOCATION

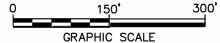
SUMP LOCATION

LEACHATE COLLECTION SUMP LOCATION

POWER POLE

OVERHEAD ELECTRICAL LINE

- 1. BASE MAP PREPARED FROM ELECTRONIC CAD FILE FROM CLIENT MADE BY "CONESTOGA-ROVERS & ASSOCIATES", DRAWING I.D. 07452-10(027)GN-NF002, DATED APRIL 10, 2003,
- 2. ALL LOCATIONS ARE APPROXIMATE.
- 3. ONLY MONITORING AND EXTRACTION WELLS FROM FIGURE 3.1 OF THE O&M PLAN ARE SHOWN.
- 4. SITE IS WITHIN FENCE LINE.



#### FIGURE 1

FMC DUBLIN ROAD SITE NIAGARA COUNTY, NEW YORK

## SITE PLAN

(pre-decommisioning)

40 LA RMERE DRIVE, SUITE 350, BUFFALO. NEW YORK 14202 PHONE: 716-541-0730

FILE NAME: P.\FWC PROGRAM\MIDDLEPORT\MID-DUBLIN RD FIGS\STE PLAN\FIGURE 1\_STE PLAN\_C080513.DWG PLOT DATE: 1/22/2024 3:40 PM PLOTTED BY: RUSSO, JILL [US-US]



# APPENDIX A WORK PLAN APPROVAL

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8 6274 East Avon-Lima Road, Avon, NY 14414-9516 P: (585) 226-5353 I F: (585) 226-8139 www.dec.ny.gov

May 16, 2023

Chris Moretti
Environmental Remediation Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

**FMC Corporation, Shelby** 

Orleans County, Site No.: 837001

Dear Chris Moretti (as the Certifying Party):

The NYSDEC has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: March 31, 2022 to March 31, 2023.

The NYSDEC hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on April 30, 2024. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

Additionally, the NYSDEC and NYSDOH (the Departments) and the USEPA have reviewed the Decommissioning of the Groundwater Extraction and Treatment System Work Plan (the Work Plan) submitted April 20, 2022, associated with the change of use dated October 5, 2021. The Work Plan meets the requirements provided in Part 375-1.6, DER 10 section 1.4 for the change of use, and the Site Management Plan (SMP) requirements for the evaluation of the decommissioning of groundwater extraction system. The Departments accept the Work Plan with the understanding that a revised SMP, using the most current site management guidance, will be submitted to the Departments and the USEPA along with the 2023 PRR for review. The current SMP template can be found on the NYSDEC website. Please include the final report for the Decommissioning of the Groundwater Extraction and Treatment System, and all Remedial System Optimization components of the SMP template in the revised SMP.

If you have any questions or concerns, please contact me at (585) 226-5459 or tasha.mumbrue@dec.ny.gov.



Sincerely,

Tasha Mumbrue Assistant Geologist

NYSDEC Project Manager

Todo H Marshu

ec: V. Hollinger, FMC Philadelphia

H. Philip, Parsons

J. Poulsen, Parsons

Young Chang, USEPA Region 2

Dave Pratt, NYSDEC

Kristen Kulow, NYSDOH

Justin Deming, NYSDOH



# **APPENDIX B WEEKLY FIELD REPORTS**





Memorandum to File

**SUBJECT:** ...... Dublin Road Well Abandonment Update Job No. 453515

**PROJECT MGR...**Jeffrey Poulsen TO: .....Chris Moretti

Report #001 Date: WE 8/28/2023 FROM: .....Jeff Poulsen

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### Project milestones this week:

- Completed the removal of vegetation blocking access to the eleven wells and 3 monitoring wells scheduled to be abandoned.
- Completed the removal of piping and appurtenances associated with the extraction wells to allow access to the wells for abandonment and removal.
- Complete well abandonment in accordance with CP-43

NYSDEC: on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that well abandonments would be started on August 28, 2023.

#### **Health and Safety:**

The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included stinging insect, working with dusty materials, and poisonous plants. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

#### Field Work Summary:

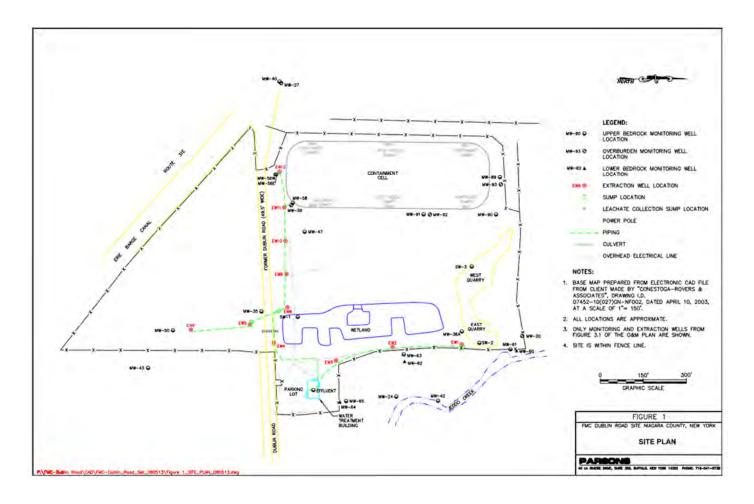
- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils.

#### **Activities Upcoming:**

There are no scheduled activities at this time. Parsons is reviewing the electrical requirements of the remediation building and will provide FMC with a recommendation.













Extraction Well EW-4 prior to abandonment.



Extraction Well EW-4 prior to abandonment following grouting and removal of appurtenances and well casing.







EW-5 prior to removal of vegetation



EW-5 following removal of vegetation.







EW-5 following removal of piping and well abandonment.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Report #002

 FROM:
 as of 10/17/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

### **Project milestones to Date:**

- Completed the removal of vegetation blocking access to the eleven wells and 3 monitoring wells scheduled to be abandoned.
- Completed the removal of piping and appurtenances associated with the extraction wells to allow access to the wells for abandonment and removal.
- Complete well abandonment in accordance with CP-43
- National Grid disconnected the electrical service to the Site

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

#### **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included stinging insect, working with dusty materials, poisonous plants, working at heights, use of hand tools. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

#### **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons collected sampled of the spent carbon and filter cake to be analyzed and profiled for disposal. This material was initially sampled in December 2014 and found to be non-hazardous. This re-sample it to update the data and will be submitted to the NYSDEC as part of a contained in determination request.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been inContact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3<sup>rd</sup> full.

#### **Activities Upcoming:**

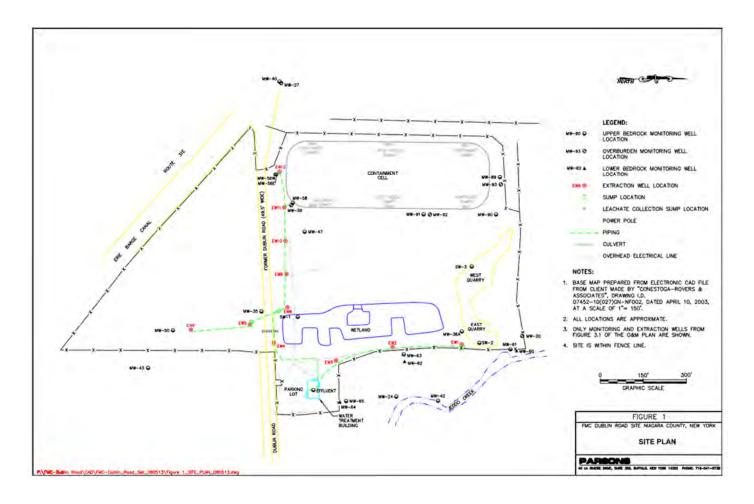
- A dumpster has been ordered for the management of debris including plastic piping which has met the RCRA cleaning requirement. (delivery scheduled for 10/18/2023)
- Wolcott is continuing to remove outside equipment for cleaning and disposal.

#### **Current Waste On Hand**

10 Drums of spent carbon3 Drums of filter cakeDrums of multimedia1 Roll of scrap metals1 Roll off of non-hazardous debris













Extraction Well EW-4 prior to abandonment.



Extraction Well EW-4 prior to abandonment following grouting and removal of appurtenances and well casing.







EW-5 prior to removal of vegetation



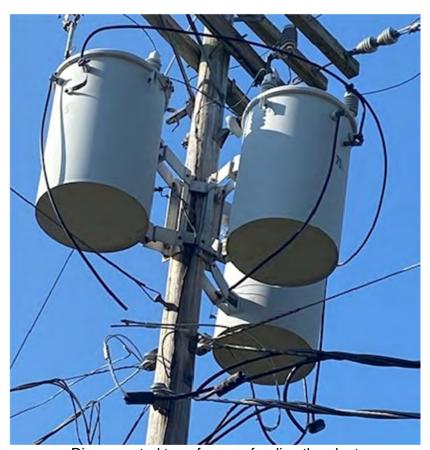
EW-5 following removal of vegetation.







EW-5 following removal of piping and well abandonment.



Disconnected transformers feeding the plant







One of two carbon vessel which have been drained and carbon removed



Propane tank emptied and removed by Drum Oil and Propane







Remains of the old electrical panel with the main feed. Note that the electrical meter was removed by National Grid.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #003

 FROM:
 as of 11/6/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

#### **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at Heights, working in tight space, powered hand tools/chainsaw. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

#### Field Work Summary:

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-5 run and the RW-12 run from the wells to the WTP.
- 90 percent completed the removal of the force main and ancillary equipment from the northern wells (EW-1, 2, 3)
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.

#### **Activities Upcoming:**

- Wolcott is continuing to remove outside equipment located north of the WTP for cleaning and disposal. Outside work is expected to be complete by 11/10/2023.
- Parsons is removing smaller equipment from inside the WTP including electrical, process and piping.
- Wolcott will start to work inside for the cleaning and removal of larger pieces of treatment equipment.

#### **Current Waste On Hand**

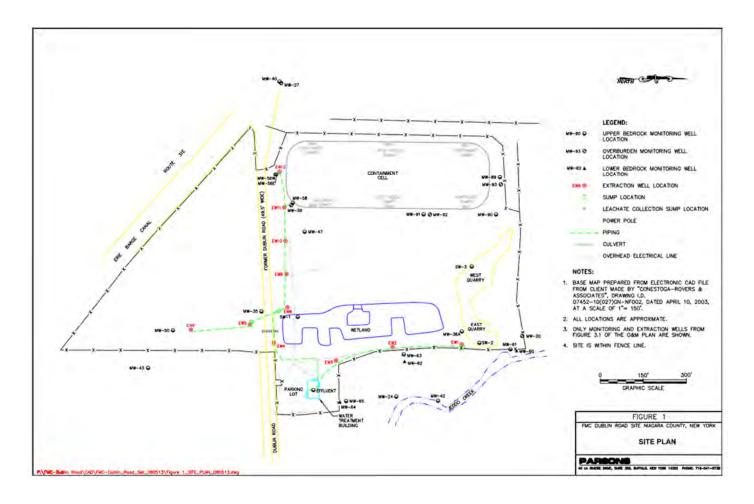
- 10 Drums of spent carbon analytical data pending
- 3 Drums of filter cake analytical data pending
- 3 Drums of multimedia analytical data pending

Decommissioned force main piping – analytical data pending

- 1 Roll off of scrap metals
- 1 Roll off of non-hazardous debris is full and being shipped out (11/7/2023)

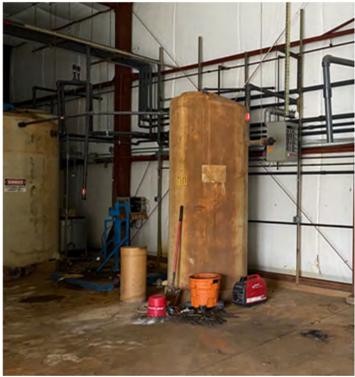












Continued cleaning and removal of equipment from inside the building



Continued cleaning and removal of equipment from inside the building







Removal of pipeline and appurtenances is completed for the force main from the east side back to the treatment plant building.







Completed removal of the force main and appurtenances from the north side of the side to the water treatment building. Stanchions still to be collected.





**Memorandum to File** 

SUBJECT: ...... Dublin Road Well Abandonment Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

TO: ...... Chris Moretti Report #004 as of 11/7/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

#### **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at Heights, working in tight space, powered hand tools/chainsaw. The project safety planning call was completed with FMC and NW Contracting on August 24, 2024. Air monitoring was completed in accordance with the Community Air Monitoring Plan (CAMP). There were no head space (using a 5-gas meter) or dust (PDR100) exceeding the permissible limits.

#### **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.





- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.
   Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.

#### **Activities Upcoming:**

- Wolcott has completed the removal of outside equipment.
- Parsons and Wolcott are continuing with the removal of equipment from inside the building including the skid mounted treatment units, tanks and electronics.
- There are no site activities planned for the week of November 20-24, 2023. Work will continue on November 27, 2023.
- Work is progressing on schedule, and we expect that field work will be completed in early December 2023.

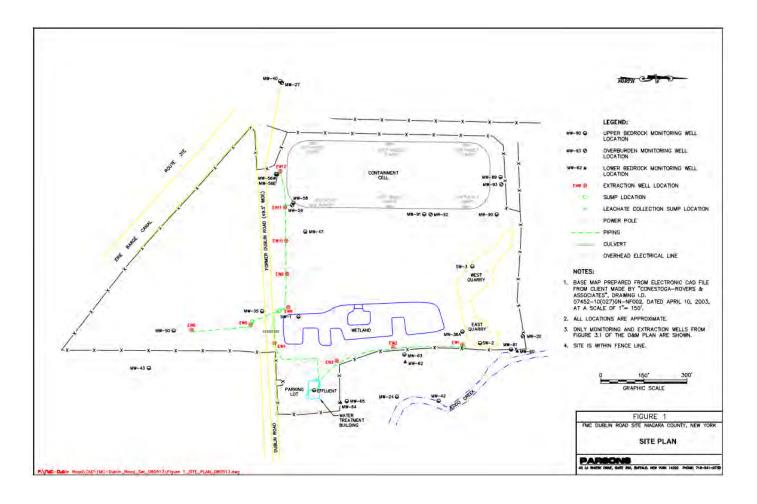
#### **Current Waste On Hand**

- 10 Drums of spent carbon disposal pending NYSDEC approval of contained-in
- 3 Drums of filter cake disposal pending NYSDEC approval of contained-in
- 3 Drums of multimedia disposal pending NYSDEC approval of contained-in
- Decommissioned force main piping analytical data complete and C-7 pending
- 1 Roll off of scrap metals
- 1 Roll off of non-hazardous debris is partially full





## **Project Photos**









Continued cleaning and removal of equipment from inside the building.
Showing the multimedia filters



Continued cleaning and removal of equipment from inside the building







Scrap metal accumulated in the roll off container.



Filled in groundwater collection sumps.







Completed removal of the force main and stanchions





CLIENT / SITE: ... FMC / Dublin Road Site

**Memorandum to File** 

SUBJECT: ...... Dublin Road Decommissioning Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #005

 FROM:
 as of 12/02/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

#### **Health and Safety:**

• The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at heights, working in tight space, powered hand tools/chainsaw, hot work.

#### **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.
- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no





electrical to any equipment. Grid will return to remove the feed wire from the pole.

- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping.
   Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.
- 90% completed the removal of equipment from the WTP building.
- Completed removal of outside electrical wiring and equipment.
- Removed an additional roll off container of scrap metal to Metalico under the C-7 exemption.

#### **Activities Upcoming:**

- Parsons and Wolcott are continuing with the removal of the clarifier. The only equipment being left in the building is the small filter press and one poly tank for the collection of water from the monthly pump outs.
- Wolcott is planning to demobilize by the end of this week.
- Removal of the drum of carbon/filter cake and filtration media is pending contained-in approval from the NYSDEC.

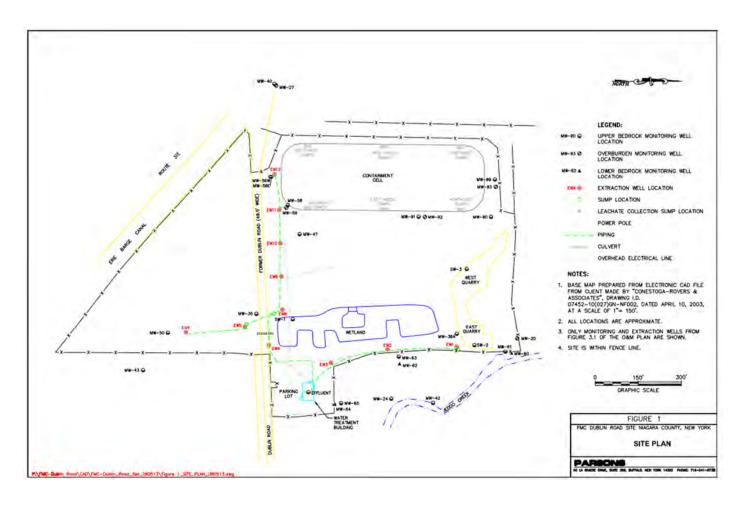
#### **Current Waste On Hand**

- 14 Drums of spent carbon disposal pending NYSDEC approval of contained-in
- 5 Drums of filter cake/filtration media disposal pending NYSDEC approval of contained-in
- 1 Roll off of scrap metals is full and awaiting a container swap out.
- 1 Roll off of non-hazardous debris is partially full.





## **Project Photos**









Cutting up old clarifier for cleaning and disposal



Remnants of equipment in water treatment building. Tank will remain.







Former location of the metals precipitator and multimedia filters





CLIENT / SITE: ... FMC / Dublin Road Site

Memorandum to File

SUBJECT: ...... Dublin Road Decommissioning Update Job No. 453515

PROJECT MGR...Jeffrey Poulsen

 TO:
 Chris Moretti
 Report #006

 FROM:
 as of 12/14/2023

The following activities took place at the Dublin Road Site as part of the Decommissioning/Demolition Project approved for 2023.

#### **Project milestones to Date:**

- Complete well abandonment in accordance with CP-43.
- National Grid disconnected the electrical service to the Site.
- Completed the removal of the propane tank.
- Completed the removal of all outside piping and other equipment for the recovery system and force main.
- Completed the removal of all inside equipment.
- Completed the removal of all outside electrical equipment.
- Completed the restoration of the 2,000-gal poly tank inside of the building for groundwater storage

**NYSDEC:** on Monday August 21, 2023, an email notification was sent to the NYSDEC and USEPA notifying them that demolition work would be starting on August 28, 2023.

On December 13, 2023, a call was held with Parsons, FMC and Alison Egbon and Henry Wilkie of NYSDEC Bureau of Materials Management regarding the disposal of spent carbon and filter cake/multimedia. NYSDEC confirmed that FMC can make the hazardous waste determination regarding the carbon and that NYSDEC needs to issue a contained in determination for the combined filter cake/multimedia.

#### **Health and Safety:**

The Parsons management team continues monitoring activities and subcontractors on site to ensure compliance with the FMC, NYSDEC, and all other pertinent regulations. Review of the Dublin project safety and PPE policies with the subcontractors occurs daily at the morning tailgate meetings. Additional morning topics included use of hand tools, working on uneven terrain, Hunting Season concerns., Working at heights, working in tight space, powered hand tools/chainsaw, hot work.

#### **Field Work Summary:**

- CF Wolcott was on site August 14, 2023 and August 15, 2023 to clear brush and trees around the wells scheduled to be abandoned.
- Parsons was on site from August 16, 2023 to August 23 2023 removing force main piping, electrical conduit and airline piping associated with each of the recovery wells. For the time being, all piping and equipment will be staged at the site remediation building for future cleaning and disposal.
- NW Contracting (NWC) mobilized to the Site on Monday August 28, 2023 to complete the abandonment of 11 groundwater extraction wells (EW-1, EW-2, EW-3, EW-4, EW-5, EW-6, EW-8, EW-9, EW-10, EW-11, and EW-12) and 3 groundwater monitoring wells (MW-35, MW-43 and MW-50). Prior to abandonment, depth to groundwater and well total depth were measured to verify that the well had not collapsed and that the well could be sealed with the calculated grout volume. Wells were abandoned in accordance with CP-43 (NYSDEC Groundwater Well Decommissioning Policy, November 2009). Wells were abandoned by injecting a





cement/bentonite mixture into the wells via tremie pipe. Groundwater displaced from the wells was collected and used to create additional grout mixtures. Grout was allowed to harden in the wells for at least 24 hours. Once the grout had time to set, NWC mobilized a mini-excavator to dig around the well casings. The casings were cut and removed. Excavations were backfilled with the existing excavated soils. Well abandonment work was completed on August 30, 2023.

- On October 16, 2023, CF Wolcott mobilized to the site to begin the breakdown and collection of electrical conduits, air piping, groundwater force main piping, piping support stanchions associated with the groundwater recovery wells and conveyance to the WTP building.
- National Grid disconnected the site from the electrical service. The site is now isolated with no electrical to any equipment. Grid will return to remove the feed wire from the pole.
- Parsons removed the spent carbon from the vessels, remove filter cake from the press and redrummed filter cake which was in damaged drums. Media is being removed from the multimedia filters and oil is drained from pumps and motors.
- A roll off container was mobilized on 10/16/2023 for metals which has not been in contact with groundwater (electrical conduit, control panels, stanchions, airline), and for force main piping which has been RCRA cleaned and sampled, and for decommissioned and RCRA cleaned process equipment.
- Modern Landfill delivered a general trash container for demo debris including insulation, cleaned plastic piping and fiberglass vessels.
- A small (13 ft) scissor lift was mobilized to the WTP building on 10/16/2023 to provide access to piping and conduit installed in the upper area of the building.
- Drum Oil and Propane was onsite on October 17, 2023 to empty and remove the 1000 gal. propane tank which was approximately 1/3rd full.
- Completed the removal of force main piping, airline and electrical for the RW-1, RW-5 runs and the RW-12 run from the wells to the WTP. This completed the force main work. Filled in the collection sumps with crushed blocking recovered from the support stanchions.
- Completed sampling per the work plan of spent carbon, filter cake, rinsate from cleaned piping. Received data from the lab and prepared the C-7 for scrap metal disposal and he contained in determination request to be submitted to the NYSDEC.
- 90% completed the removal of equipment from the WTP building.
- Completed removal of outside electrical wiring and equipment.
- Removed an additional roll off container of scrap metal to Metalico under the C-7 exemption.
- Completed the removal of the clarifier structure which was the last piece of the inside equipment
  to be removed. All equipment has now been removed and placed in the trash roll off or the scrap
  roll off.
- Shipped a scrap roll off container to Metalico. There will be one final shipment.
- Drums of waste are being staged inside of the building until disposal.
- Wolcott completed their work and has demobilized.
- Demobilized the mobile lift platforms.

#### **Activities Upcoming:**

- Removal of the drum of carbon/filter cake and filtration media is pending contained-in approval from the NYSDEC. Parsons will revise the CI determination request for FMC review.
- Final clean up and securing of the building for winter.

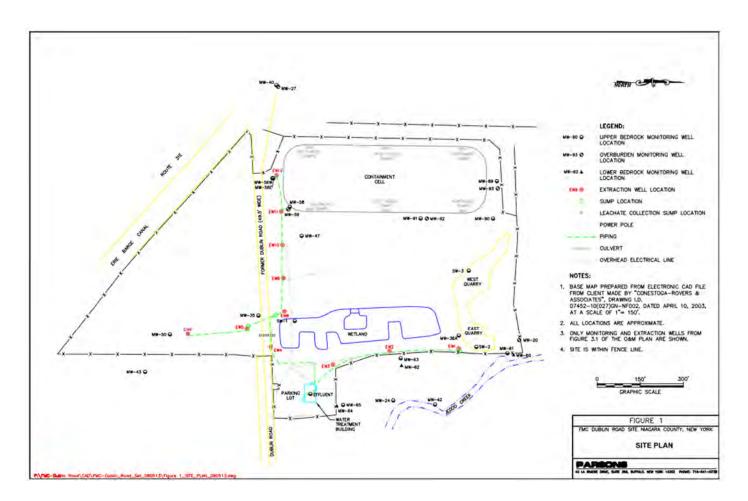




#### **Current Waste On Hand**

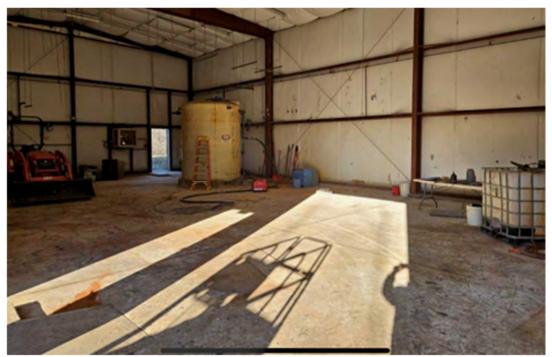
- 15 Drums of spent carbon disposal pending hazardous waste determination and landfill
- 5 Drums of filter cake/filtration media disposal pending NYSDEC approval of contained-in
- 1 Roll off of scrap metals is full and awaiting disposal
- 1 Roll off of non-hazardous debris is partially full and ready for disposal

### **Project Photos**









inside of former WTP with process piping and equipment removed except for groundwater holding tank and filter press



inside of former WTP with all process piping and equipment removed except for groundwater holding tank and filter press







inside of former WTP with process piping and equipment removed except for groundwater holding tank and filter press



# APPENDIX C WELL DECOMMISSIONING RECORDS

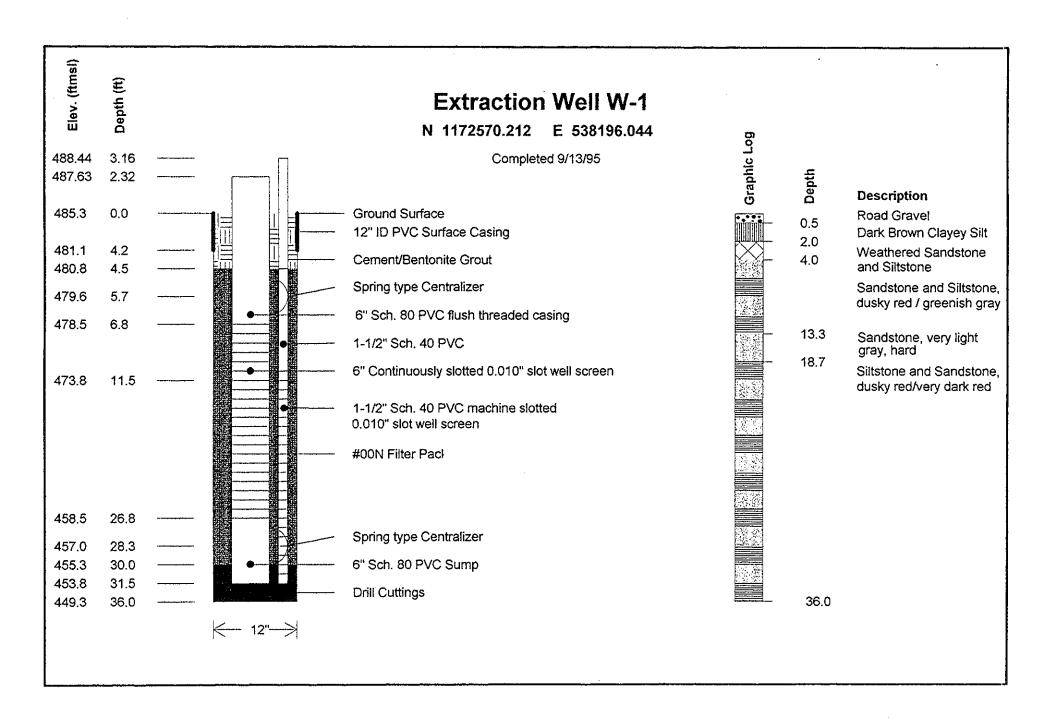
## ATTACHMENT 4 DUBLIN ROAD SITE GROUNDWATER WELLS TO ABANDON

Well	Northing	Easting	Date	<b>Ground Elevation</b>	Top of Casing	Total Depth	Depth to Debrock
ID			Installed	(feet)	Elevation (feet)	(feet)	(feet)
EW-1	1172570.212	538196.044	9/13/1995	485.3	487.63	36	2
EW-2	1172329.070	538203.157	9/13/1995	490.0	493.02	24	4
EW-3	1172133.430	538252.934	9/13/1995	492.1	495.62	35	6.5
EW-4	1171913.749	538189.286	9/14/1995	485.8	493.45	31.5	4
EW-5	1171832.868	538125.158	9/14/1995	484.8	489.06	32.1	4
EW-6	1171626.981	538142.295	9/15/1995	491.1	492.88	38	10.2
EW-8	1171953.384	538068.440	9/15/1995	489.9	492.99	32	1
EW-9	1171959.024	537949.638	9/13/1995	501.1	504.16	34	3.5
EW-10	1171956.189	537833.125	9/7/1995	502.9	505.88	36	4.5
EW-11	1171975.239	537707.503	7/23/1991	496.4	502.58	27.1	3.5
EW-12	1171937.569	537591.347	9/14/1995	502.4	506.54	34.7	4

Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-1		
Site Location: Dublin Road, Medina,	NY	Inspector: J P	oulsen, PG/Parsons	
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 1172:	570 212			
<b>O</b>	14-feet	Easting: 538196.044		
Measured Depth to Water		Casing Diameter	6-inch	
Measured Depth to Bottom	34-feet	Screen Length	20-feet	
DECOMMISSIONING DATA			WELL SCHEMAT	IC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	NA	1		
Borehole Dia/ (in.)	NA NA	see attached well	contruction record and b	oring log
Temporary Casing Installed (y/n)	NA	1	1	
Depth Templorary Casing Installed	NA	1		
Casing Type/dia. (in)	NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	2	1		
Casing type/dia (inch)	6			
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA	1		
Size of Perforations	NA	]		
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	2-34			
# of Batches Prepared	3			
For Each Batch		]		
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	187			
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	7.5			
Quantity of Calcium Chloride Used (lbs.)	0		_	
Volume of Grout Prepared (gal)	51			
Volume of Grout Used (gal.)	51			

#### Comments

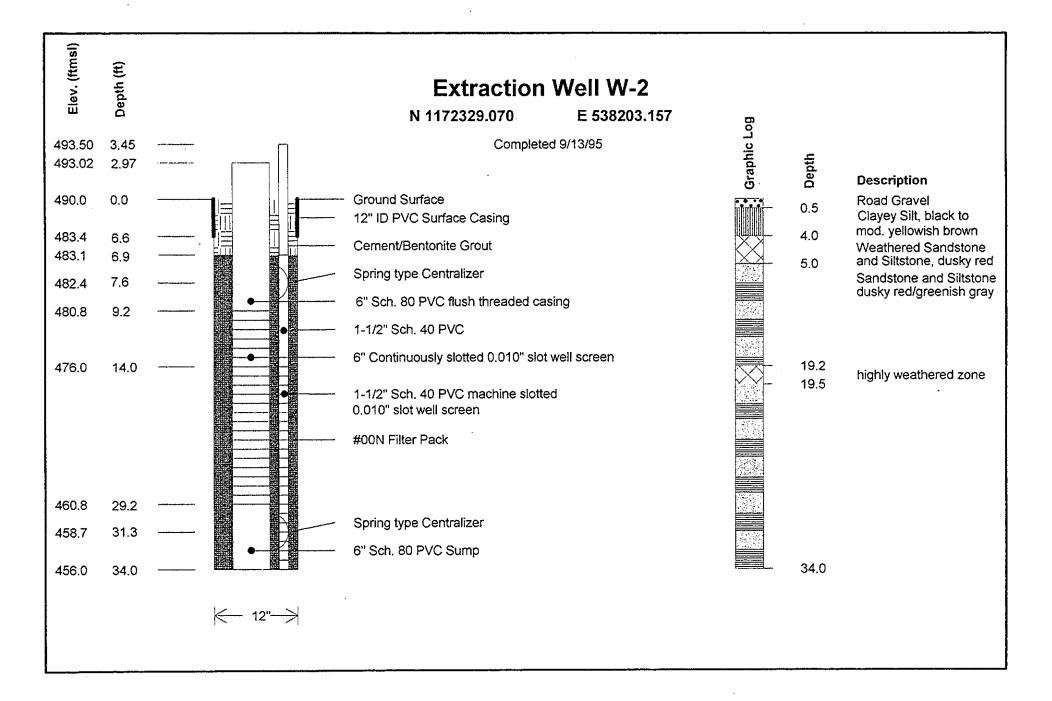
top 2 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 2 feet bgs  $\,$ 



Site Name: FMC Dublin Road	Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-2		
Site Location: Dublin Road, Medina,	NY	Inspector: J. P	oulsen, PG/Parson	ıs	
Drilling Co.: NW Contracting		Date: 8/28/2023			
Location: Northing: 1172	329.070	Easting: 538203.157			
Measured Depth to Water	17-feet	Casing Diameter 6-inch			
Measured Depth to Bottom	24-feet	Screen Length 20-feet			
DECOMMISSIONING DATA			WELL SCHEMA	TIC	
OVERDRILLING		DEPTH (feet)		GS	
Interval Drilled	NA	DDI 111 (1001)			
Drilling Method (s)	<u>NA</u> NA	1			
Borehole Dia/ (in.)	NA NA	see attached well a	contruction record and	   boring log	
Temporary Casing Installed (y/n)	<u>NA</u>	see attached went	contraction record and		
Depth Templorary Casing Installed	NA NA	1			
Casing Type/dia. (in)	NA NA				
Method of Installing	NA				
C		1			
CASING PULLED					
Method Employed	EXCAVATOR				
Casing Retreived (ft.)	4	1			
Casing type/dia (inch)	6				
CASING PERFORATION					
Equipment Used	NA				
Number of perforations/foot	NA				
Size of Perforations	NA	1			
Interval of Perforations	NA				
GROUTING					
Interval Grouted (FBGS)	4-24				
# of Batches Prepared	2	1			
For Each Batch		1			
Quantity of Water Used (gal)	15				
Quantity of Cement Used (lbs)	190	]			
Cement Type	portland	]			
Quantity of Bentonite Used (lbs.)	7.5				
Quantity of Calcium Chloride Used (lbs.)	0				
Volume of Grout Prepared (gal)	45				
Volume of Grout Used (gal.)	45				

#### Comments

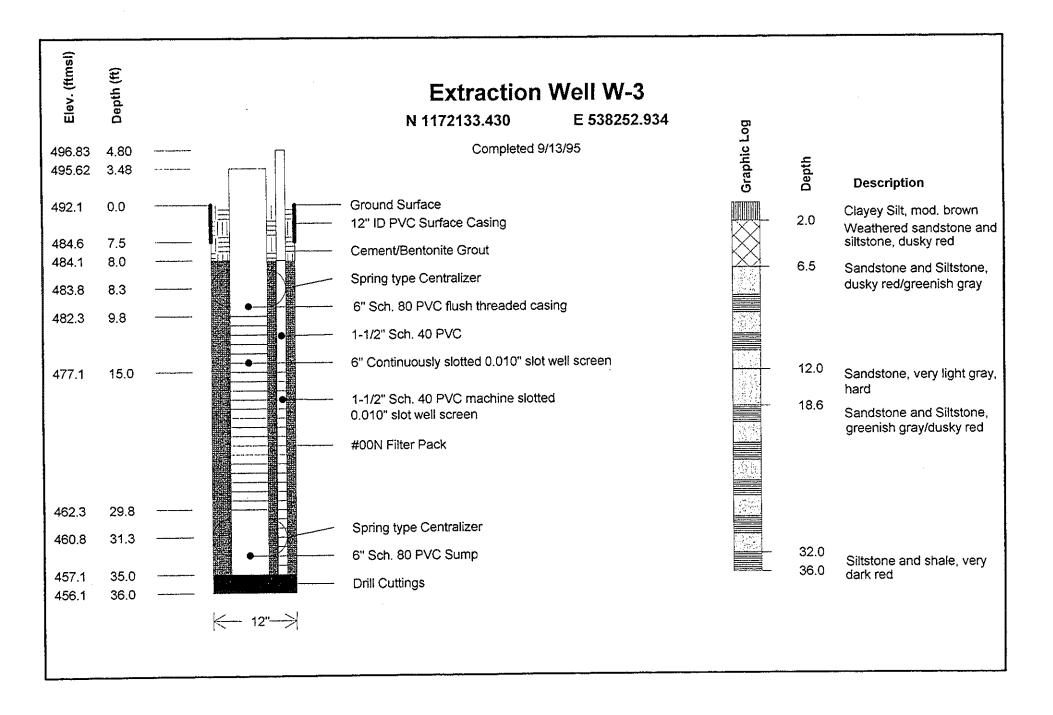
top 4 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 4 feet bgs  $\,$ 



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-3		
Site Location: Dublin Road, Medina,	NY	Inspector: J P	oulsen, PG/Parson	ns
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 1172	122 /20			
O	10-feet	Easting: 538252.934		
Measured Depth to Water		Casing Diameter 6-inch		
Measured Depth to Bottom	35-feet	Screen Length	25-feet	
DECOMMISSIONING DATA			WELL SCHEMA	ATIC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			1
Drilling Method (s)	NA NA	1		
Borehole Dia/ (in.)	NA NA	see attached well	contruction record and	d boring log
Temporary Casing Installed (y/n)	NA	1		
Depth Templorary Casing Installed	NA	1		
Casing Type/dia. (in)	NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	5	1		
Casing type/dia (inch)	6			
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA	1		
Size of Perforations	NA	]		
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	5-35			
# of Batches Prepared	3			
For Each Batch		]		
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190			
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	8			
Quantity of Calcium Chloride Used (lbs.)	0			
Volume of Grout Prepared (gal)	45			
Volume of Grout Used (gal.)	45			

#### Comments

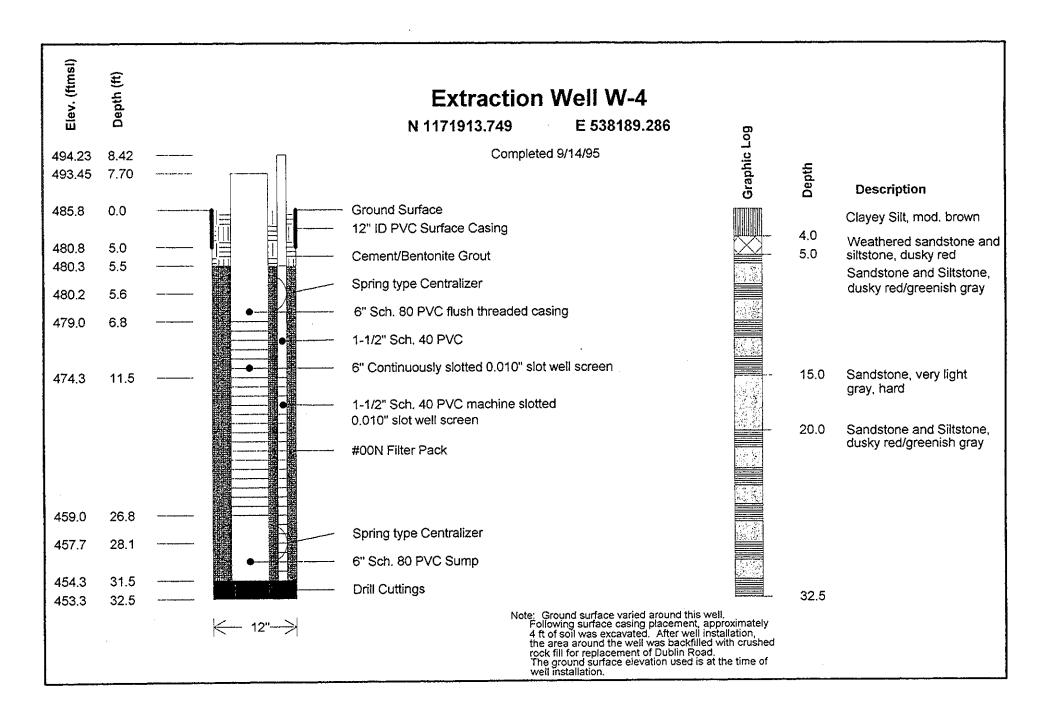
top 5 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 6.5 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-4		
Site Location: Dublin Road, Medina,	NY	Inspector: J P	oulsen, PG/Parsons	<u> </u>
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 1171	012 740			
	8-feet	Easting: 538189.286		
Measured Depth to Water		Casing Diameter 6-inch		
Measured Depth to Bottom	31.5-feet	Screen Length	20-feet	
DECOMMISSIONING DATA			WELL SCHEMAT	ГІС
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	NA NA	1		
Borehole Dia/ (in.)	NA NA	see attached well	contruction record and	boring log
Temporary Casing Installed (y/n)	NA	1		
Depth Templorary Casing Installed	NA NA	1		
Casing Type/dia. (in)	NA NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	4	1		
Casing type/dia (inch)	6			
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA NA			
Size of Perforations	NA			
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	4-31.5			
# of Batches Prepared	3			
For Each Batch		1		
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190			
Cement Type	portland	]		
Quantity of Bentonite Used (lbs.)	8	]		
Quantity of Calcium Chloride Used (lbs.)	0			<del></del>
Volume of Grout Prepared (gal)	45	]		
Volume of Grout Used (gal.)	45	1		

#### Comments

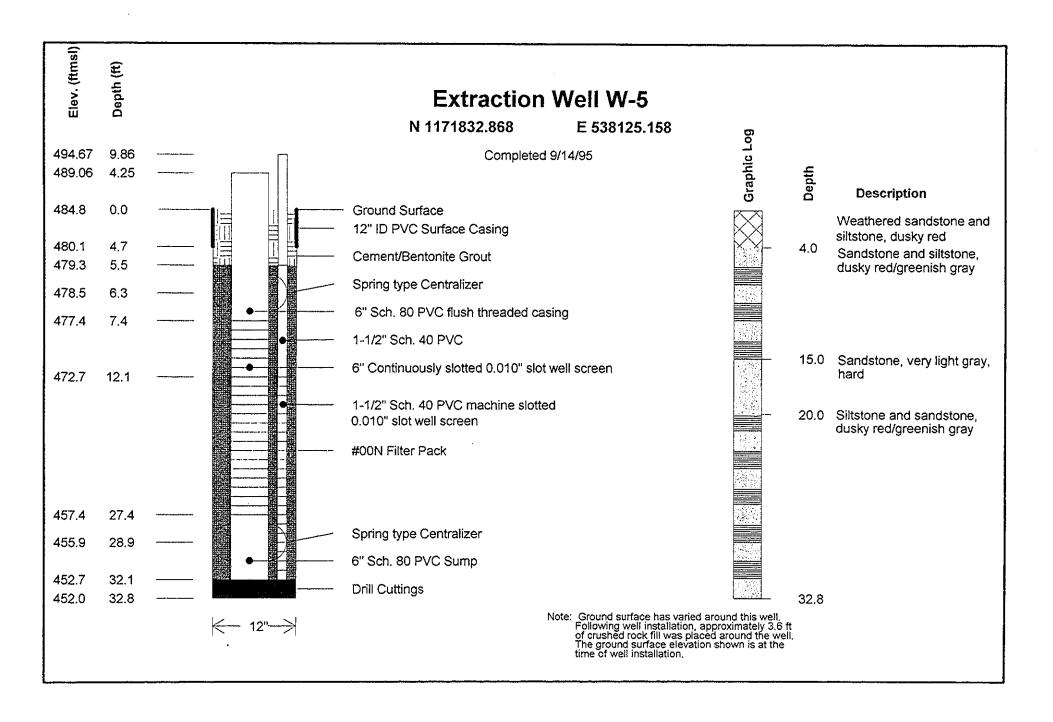
top 4 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 4 feet bgs  $\,$ 



Site Name: FMC Dublin Road		Well I.D.: Ext	raction Well EW-5	5
al				
Site Location: Dublin Road, Medina,	NY	_	oulsen, PG/Parson	S
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 11718	832.868	Easting: 53812	25.158	
Measured Depth to Water	11.5-feet	Casing Diameter 6-inch		
Measured Depth to Bottom	32-feet	Screen Length 20-feet		
DECOMMISSIONING DATA			WELL SCHEMA	TIC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	NA	1		
Borehole Dia/ (in.)	NA NA	see attached well c	ontruction record and	boring log
Temporary Casing Installed (y/n)	NA	1		
Depth Templorary Casing Installed	NA NA	1		
Casing Type/dia. (in)	NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	5			
Casing type/dia (inch)	·— - <u></u>	1		
casing type are (men)		1		
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA			
Size of Perforations	NA	]		
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	4-32			
# of Batches Prepared	3	1		
For Each Batch				
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190	]		
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	8	]		
Quantity of Calcium Chloride Used (lbs.)	0	]		
Volume of Grout Prepared (gal)	45			
Volume of Grout Used (gal.)	45			

#### Comments

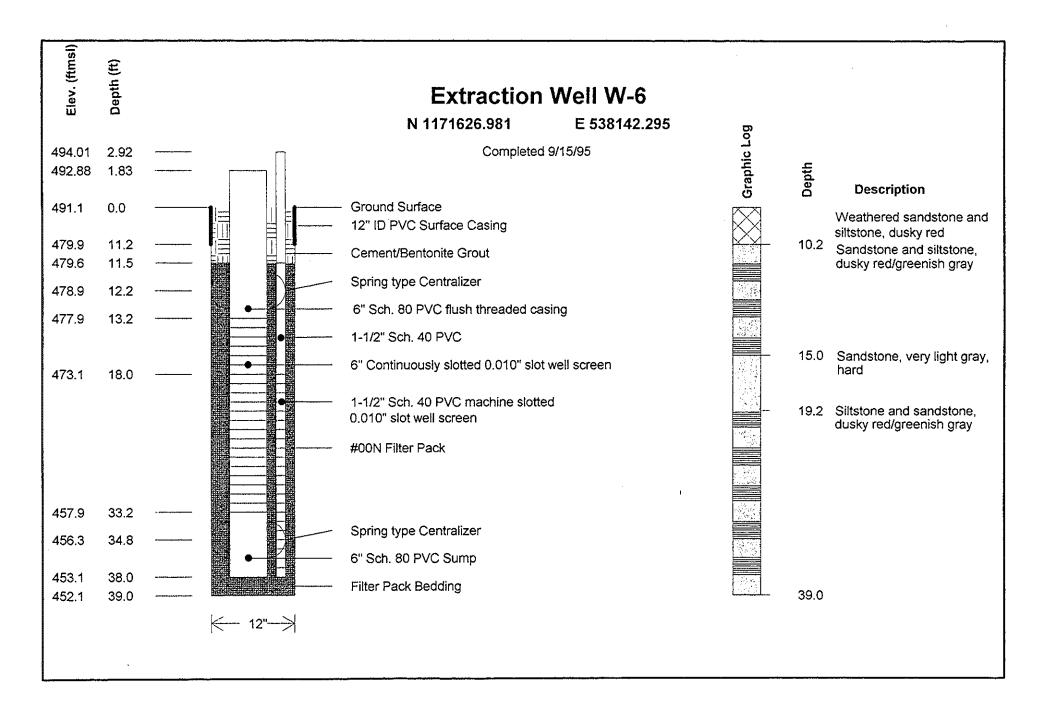
top 4 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 4 feet bgs  $\,$ 



Site Name: FMC Dublin Road		Well I.D.: Ext	raction Well EW-6	Ó
Site Location: Dublin Road, Medina,	NY	-	oulsen, PG/Parson	S
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 11716	526.981	Easting: 53814	12.295	
Measured Depth to Water	12-feet	Casing Diameter	6-inch	
Measured Depth to Bottom	38-feet	Screen Length 20-feet		
DECOMMISSIONING DATA			WELL SCHEMA	TIC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			┨ ┣━━━
Drilling Method (s)	NA	1		
Borehole Dia/ (in.)	<u>NA</u>	see attached well c	ontruction record and	l l boring log
Temporary Casing Installed (y/n)	<u>NA</u>	1		
Depth Templorary Casing Installed	NA			
Casing Type/dia. (in)	NA NA			
Method of Installing	NA	1		
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	5			
Casing type/dia (inch)	6	]		
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA			
Size of Perforations	NA			
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	5-38			
# of Batches Prepared	4			
For Each Batch				
Quantity of Water Used (gal)	15	1		
Quantity of Cement Used (lbs)	190			
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	7.5	4		
Quantity of Calcium Chloride Used (lbs.)	0	4		
Volume of Grout Prepared (gal)	50	4		
Volume of Grout Used (gal.)	50	J		

#### Comments

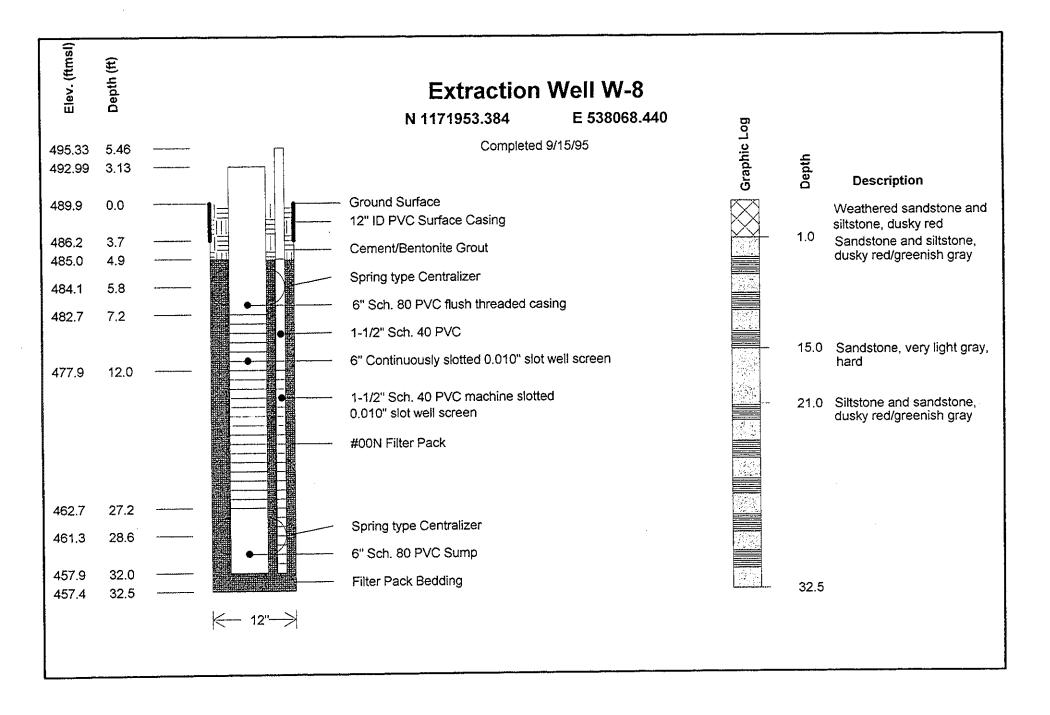
top 5 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 10.2 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-8		
Site Location: Dublin Road, Medina,	NY	Inspector: J P	oulsen, PG/Parsons	<u> </u>
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 1171	052 284			
	933.364 7-feet	Easting: 538068.440		
Measured Depth to Water		Casing Diameter 6-inch		
Measured Depth to Bottom	32-feet	Screen Length	20-feet	
DECOMMISSIONING DATA			WELL SCHEMAT	ΓIC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	NA NA	1		
Borehole Dia/ (in.)	NA NA	see attached well	contruction record and	boring log
Temporary Casing Installed (y/n)	NA	1		
Depth Templorary Casing Installed	NA NA	1		
Casing Type/dia. (in)	NA NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	5	1		
Casing type/dia (inch)	6			
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA NA			
Size of Perforations	NA			
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	1-32			
# of Batches Prepared	3			
For Each Batch		1		
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190			
Cement Type	portland	]		
Quantity of Bentonite Used (lbs.)	8	]		
Quantity of Calcium Chloride Used (lbs.)	0	]		
Volume of Grout Prepared (gal)	45	]		
Volume of Grout Used (gal.)	45	1		

#### Comments

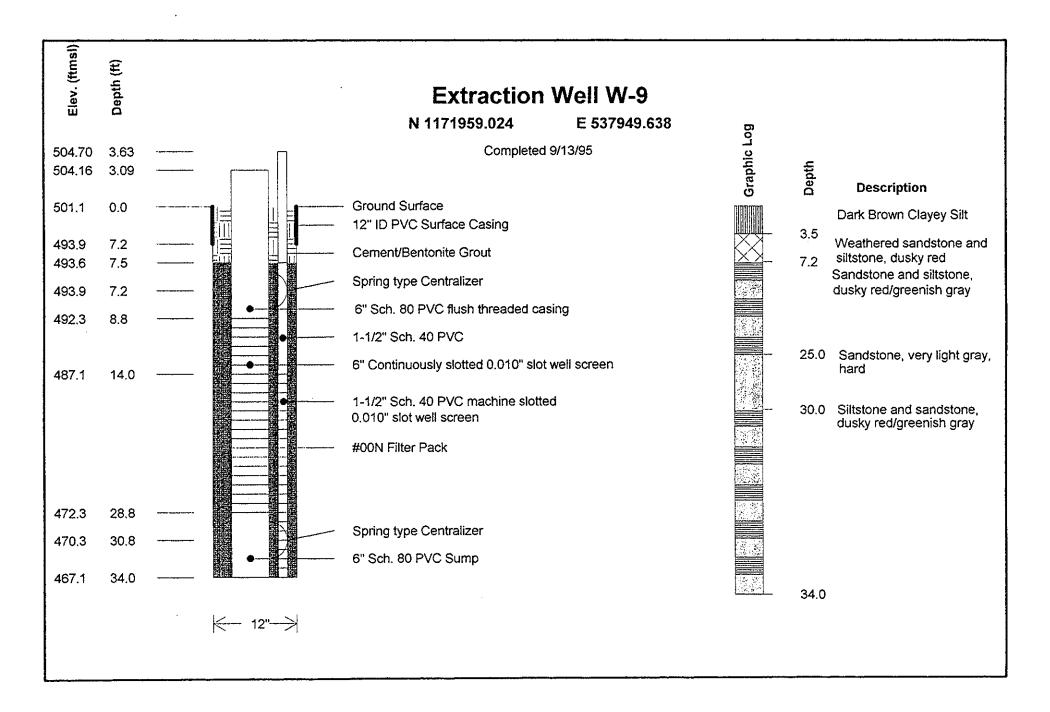
top 1 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 1 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-9		
Site Location: Dublin Road, Medina,	NY	Inspector: I P	oulsen, PG/Parsons	<u> </u>
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 11719	050 024			
	939.024 8-feet	Easting: 537949.638		
Measured Depth to Water		Casing Diameter 6-inch		
Measured Depth to Bottom	34-feet	Screen Length	20-feet	
DECOMMISSIONING DATA			WELL SCHEMAT	ГІС
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	NA	1		
Borehole Dia/ (in.)	NA	see attached well	contruction record and	boring log
Temporary Casing Installed (y/n)	NA			
Depth Templorary Casing Installed	NA			
Casing Type/dia. (in)	NA	1		
Method of Installing	NA			
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	3.5			
Casing type/dia (inch)	6			
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA			
Size of Perforations	NA			
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	3.5-34			
# of Batches Prepared	3	]		
For Each Batch				
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190			
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	8			
Quantity of Calcium Chloride Used (lbs.)	0	]		
Volume of Grout Prepared (gal)	45			
Volume of Grout Used (gal.)	45			

#### Comments

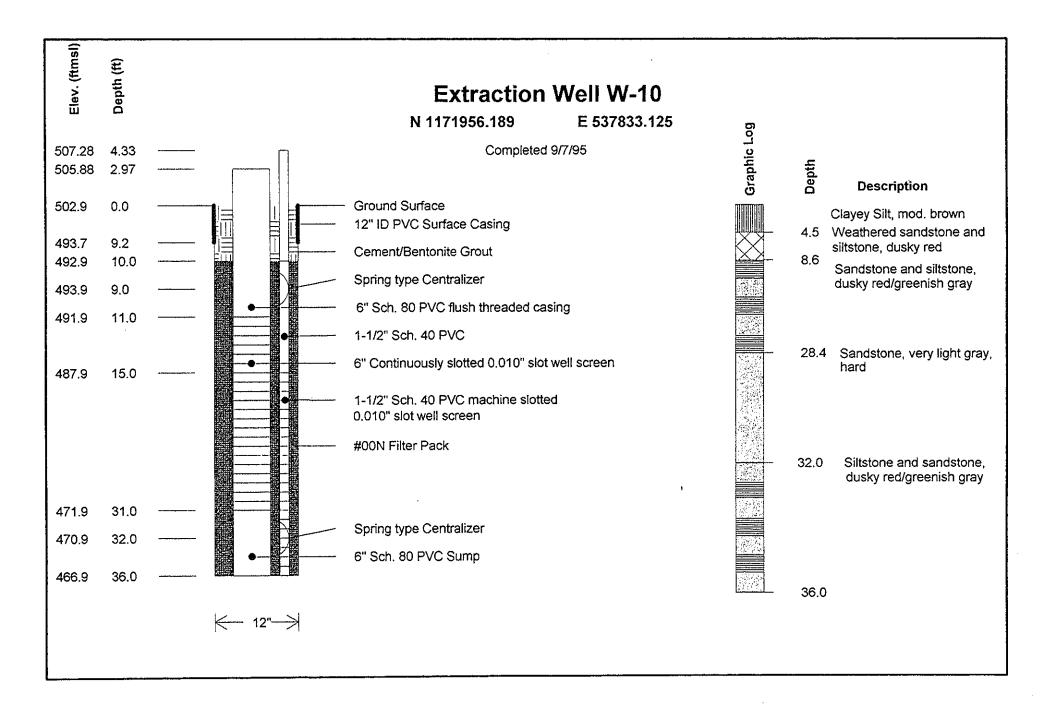
top 3.5 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 3.5 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-10		
Site Location: Dublin Road, Medina,	NY	Inspector: J. P	oulsen, PG/Parsons	S
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 11719	956.189	Easting: 5378833.125		
Measured Depth to Water	12-feet	Casing Diameter 6-inch		
Measured Depth to Bottom	36-feet	Screen Length 20-feet		
DECOMMISSIONING DATA			WELL SCHEMA	ГІС
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			
Drilling Method (s)	<u>NA</u>	1		
Borehole Dia/ (in.)	<u>NA</u>	see attached well of	contruction record and	I I boring log
Temporary Casing Installed (y/n)	NA			
Depth Templorary Casing Installed	NA			
Casing Type/dia. (in)	NA	1		
Method of Installing	NA			
CACING BUILLED				
CASING PULLED Method Employed	EXCAVATOR			
Casing Retreived (ft.)	5	1		
Casing type/dia (inch)	6	-		
Casing type/tha (men)		1		
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA			
Size of Perforations	NA			
Interval of Perforations	NA			
GROUTING				
Interval Grouted (FBGS)	4.5-36			
# of Batches Prepared	3.5	1		
For Each Batch		1		
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190	1		
Cement Type	portland	]		
Quantity of Bentonite Used (lbs.)	7.5			
Quantity of Calcium Chloride Used (lbs.)	0			<del></del>
Volume of Grout Prepared (gal)	45			
Volume of Grout Used (gal.)	45	1		

#### Comments

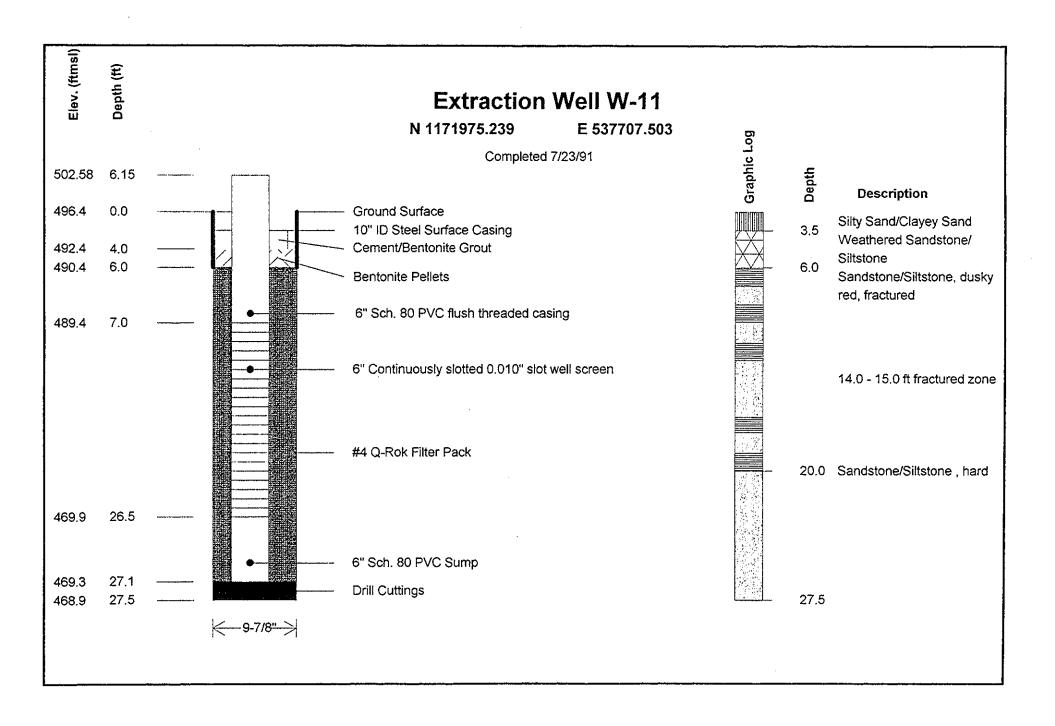
top 4.5 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 4.5 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Ext	raction Well EW-1	1
Site Location: Dublin Road, Medina,	NY	_	oulsen, PG/Parson	S
Drilling Co.: NW Contracting		Date: 8/28/2023		
Location: Northing: 11719	975.239	Easting: 53770	07.503	
Measured Depth to Water	12-feet	Casing Diameter 6-inch		
Measured Depth to Bottom	27 feet	Screen Length 20-feet		
DECOMMISSIONING DATA			WELL SCHEMA	TIC
OVERDRILLING		DEPTH (feet)		GS
Interval Drilled	NA			<del> </del>
Drilling Method (s)	NA	-		
Borehole Dia/ (in.)	NA NA	see attached well o	contruction record and	l l boring log
Temporary Casing Installed (y/n)	NA NA	1		
Depth Templorary Casing Installed	NA	1		
Casing Type/dia. (in)	NA NA			
Method of Installing	NA NA	1		
CASING PULLED				
Method Employed	EXCAVATOR			
Casing Retreived (ft.)	3.5			
Casing type/dia (inch)	6	]		
CASING PERFORATION				
Equipment Used	NA			
Number of perforations/foot	NA			
Size of Perforations	NA NA	1		
Interval of Perforations	NA	]		
GROUTING				
Interval Grouted (FBGS)	3.5-27			
# of Batches Prepared	2.5			
For Each Batch	. — . — . — .			
Quantity of Water Used (gal)	15			
Quantity of Cement Used (lbs)	190			
Cement Type	portland			
Quantity of Bentonite Used (lbs.)	7.5			
Quantity of Calcium Chloride Used (lbs.)	0			
Volume of Grout Prepared (gal)	45			
Volume of Grout Used (gal.)	45			

#### Comments

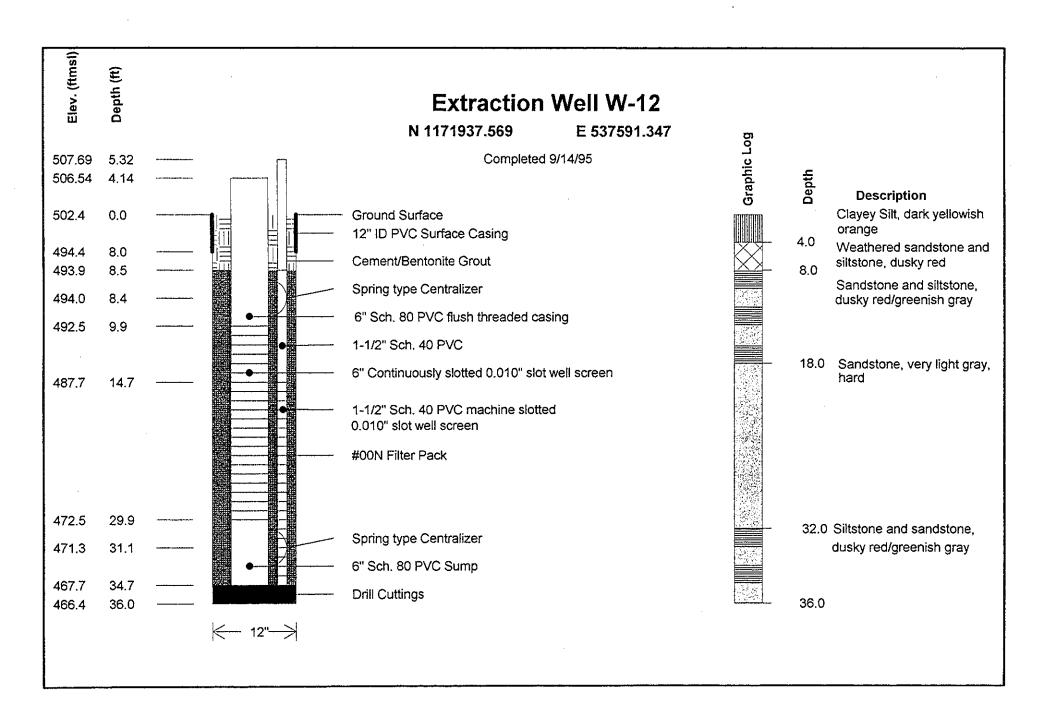
top 3.5 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 3.5 feet bgs



Site Name: FMC Dublin Road		Well I.D.: Extraction Well EW-12					
Site Location: Dublin Road, Medina,	NY	Inspector: J. Poulsen, PG/Parsons					
Drilling Co.: NW Contracting		Date: 8/28/202	23				
Location: Northing: 11719	37.569	Easting: 53759	91.347				
Measured Depth to Water	15-feet	Casing Diameter	6-inch				
Measured Depth to Bottom	34.5 feet	Screen Length	20-feet				
DECOMMISSIONING DATA			WELL SCHEMA	TIC			
OVERDRILLING				1 1			
OVERDRILLING		DEPTH (feet)		GS			
Interval Drilled	NA			1			
Drilling Method (s)	NA	1					
Borehole Dia/ (in.)	NA	see attached well c	ontruction record and	l boring log			
Temporary Casing Installed (y/n)	NA						
Depth Templorary Casing Installed	NA						
Casing Type/dia. (in)	NA						
Method of Installing	NA						
CASING PULLED							
Method Employed	EXCAVATOR						
Casing Retreived (ft.)	4						
Casing type/dia (inch)	6	1					
CASING PERFORATION							
Equipment Used	NA						
Number of perforations/foot	NA						
Size of Perforations	NA						
Interval of Perforations	NA						
GROUTING							
Interval Grouted (FBGS)	4-34.5						
# of Batches Prepared	3						
For Each Batch							
Quantity of Water Used (gal)	15						
Quantity of Cement Used (lbs)	190						
Cement Type	portland						
Quantity of Bentonite Used (lbs.)	8						
Quantity of Calcium Chloride Used (lbs.)	0						
Volume of Grout Prepared (gal)	45						
Volume of Grout Used (gal.)	45	1					

### Comments

top 4 feet of casing was excavated, removed and backfilled with soil after grouting well top of rock at 4 feet bgs  $\,$ 



Site Name: FMC Dublin Road		MW-35					
Site Location: Dublin Road, Medina	, NY	Inspector: J. Poulsen, PG/Parsons					
Drilling Co.: NW Contracting		Date: 8/28/2023					
Location: Northing: 43.2	169055	Easting:-7843	89571				
Measured Depth to Water	2-feet	Casing Diameter 1-inch					
Measured Depth to Bottom	Screen Length	5-feet					
DECOMMISSIONING I		WELL SCHE	MATIC				
OVERDRILLING		DEPTH (feet)		GS			
Interval Drilled	NA						
Drilling Method (s)	<u>NA</u>	1					
Borehole Dia/ (in.)	NA	1		1 1			
Temporary Casing Installed (y/n)	NA	1		1 1			
Depth Templorary Casing Installed	NA						
Casing Type/dia. (in)	NA NA						
Method of Installing	NA	]					
CASING PULLED							
Method Employed	EXCAVATOR						
Casing Retreived (ft.)	8						
Casing type/dia (inch)	1	]					
CASING PERFORATION							
Equipment Used	NA						
Number of perforations/foot	NA NA						
Size of Perforations	NA NA						
Interval of Perforations	NA						
GROUTING							
Interval Grouted (FBGS)	0-8						
# of Batches Prepared	1						
For Each Batch	· — - — • — • — •						
Quantity of Water Used (gal)	15						
Quantity of Cement Used (lbs)	190						
Cement Type	portland						
Quantity of Bentonite Used (lbs.)	7.5						
Quantity of Calcium Chloride Used (lbs.)	0						
Volume of Grout Prepared (gal)	45						
Volume of Grout Used (gal.)	2	]					

### Comments

all casing was removed and backfilled using grout

Site Name: FMC Dublin Road		Well I.D.: MW-43						
Site Location: Dublin Road, Medina,	NY	Inspector: J. Poulsen, PG/Parsons						
Drilling Co.: NW Contracting		Date: 8/28/202	23					
Location: Northing: 43.210	52221	Easting: -78.4	411359					
Measured Depth to Water	9-feet	Casing Diameter 1-inch						
Measured Depth to Bottom	Screen Length	5-feet						
DECOMMISSIONING D		WELL SCHE	MATIC					
				ī	1			
OVERDRILLING		DEPTH (feet)			GS			
Interval Drilled	NA							
Drilling Method (s)	NA	1						
Borehole Dia/ (in.)	NA			•	-			
Temporary Casing Installed (y/n)	NA	1						
Depth Templorary Casing Installed	NA	1						
Casing Type/dia. (in)	NA	1						
Method of Installing	NA							
CASING PULLED								
Method Employed	EXCAVATOR							
Casing Retreived (ft.)	5	1						
Casing type/dia (inch)	·— · — · 6	-						
cusing type and (men)		1						
CASING PERFORATION								
Equipment Used	NA							
Number of perforations/foot	NA							
Size of Perforations	NA							
Interval of Perforations	NA							
GROUTING								
Interval Grouted (FBGS)	0-10							
# of Batches Prepared	1	1						
For Each Batch		1						
Quantity of Water Used (gal)	15							
Quantity of Cement Used (lbs)	190	1						
Cement Type	portland	1						
Quantity of Bentonite Used (lbs.)	7.5	1						
Quantity of Calcium Chloride Used (lbs.)	0	1		<u> </u>	•			
Volume of Grout Prepared (gal)	45	1						
Volume of Grout Used (gal.)	2	1						
		_						

# Comments

all 100 feet of casing was removed and backfilled with soil after grouting well

Site Name: FMC Dublin Road	Site Name: FMC Dublin Road			Well I.D.: MW-50						
Site Location: Dublin Road, Medina,	NY	Inspector: J. Poulsen, PG/Parsons								
	IN I	Date: 8/28/2023								
Drilling Co.: NW Contracting	5.420.5									
Location: Northing: 43.21		Easting: -78.4								
Measured Depth to Water	3.8-feet	Casing Diameter	1-inch							
Measured Depth to Bottom	10-feet	Screen Length	5-feet							
DECOMMISSIONING I		WELL SCHE	EMATIC							
OVERDRILLING		DEPTH (feet)			GS					
Interval Drilled	NA									
Drilling Method (s)	NA	1								
Borehole Dia. (in.)	NA NA	1		ı	1					
Temporary Casing Installed (y/n)	NA	1								
Depth Templorary Casing Installed	NA	1								
Casing Type/dia. (in)	NA	1								
Method of Installing	NA									
CASING PULLED										
Method Employed	EXCAVATOR									
Casing Retreived (ft.)	5	1								
Casing Tpe/dia (inch)	6									
CASING PERFORATION										
Equipment Used	NA									
Number of perforations/foot	NA									
Size of Perforations	NA									
Interval of Perforations	NA	]								
GROUTING										
Interval Grouted (FBGS)	0-10	]								
# of Batches Prepared	1	]								
For Each Batch										
Quantity of Water Used (gal)	15									
Quantity of Cement Used (lbs)	190	]								
Cement Type	portland									
Quantity of Bentonite Used (lbs.)	8	]			_					
Quantity of Calcium Chloride Used (lbs.)	0									
Volume of Grout Prepared (gal)	45									
Volume of Grout Used (gal.)	2	[								

# Comments

all casing was removed and backfilled with soil after grouting well



# APPENDIX D SCRAP METAL RECYCLING RECORD



FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

215.299.6000 fmc.com

### Sent Via Email

November 20, 2023

Ms. Samantha Vandeusen New York State Department of Environmental Conservation Division of Material Management, Bureau of Hazardous Waste and Radiation Management 625 Broadway, 9th Floor Albany, New York 12233-7256

RCRA Compliance & Technical Support Section Bureau of Hazardous Waste and Radiation Management Division of Materials Management New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7256

Re: Scrap Metal Off-Site Management FMC Corporation – Dublin Road Site DER Site No. 8-37-001 EPA I.D. No. NYD00511857

Dear Ms. Vandeusen:

FMC Corporation (FMC) is notifying the New York State Department of Environmental Conservation (NYSDEC) of its intent to recycle metals generated as part of FMC's Dublin Road Demolition Project under the scrap metal exemption of 6 NYCRR 371.1(e)(1)(xiii). Pursuant to this exemption, the processed scrap metal intended for recycling is not defined as a solid waste under the applicable RCRA regulations.

This work is being completed pursuant to the NYSDEC-approved Decommissioning of Groundwater Extraction and Treatment Systems Work Plan (dated April 20, 2022). Scrap metal will be cleaned in accordance with the work plan and shipped to Metalico, Inc (Buffalo) located at 127 Filmore Rd, Buffalo, NY 14210 for processing and recycling.

Ms. Vandeusen November 20, 2023 Page 2

Should you have any concerns regarding anything in the foregoing, or require any additional information, please feel free to contact me via email at christina.moretti@fmc.com or at (215) 299-6252.

Sincerely,

Chris Moretti

Remediation Manager

Chin Books

cc:

E. Kaptein, NYSDEC Region 8 M. Iddings, Esq., FMC Philadelphia M. Hecker, Esq., Hodgson Russ Buffalo H. Philip, Parsons J. Poulsen, Parsons info.sqg@dec.ny.gov

# C7 NOTIFICATION FOR GENERATORS

To: RCRA Compliance & Technical Support Section Date: 11/17/2023

Bureau of Hazardous Waste and Radiation Management

**Division of Materials Management** 

New York State Department of Environmental Conservation

625 Broadway

Albany, NY 12233-7256

# Please be advised that FMC Corporation

(generator's company name)

# **Dublin Road**

(generator's street address)

intends to use the

# scrap metal exemption of 6NYCRR 371.7(e)(1)(xiii)

(description and citation of exemption or exclusion; e.g., scrap metal exemption of 6 NYCRR 371.1(g)(1)(iii)(b))

for

scrap metal removed during the decommissioning of the water treatment plant in accordance with the NYSDEC approved Decommissioning Work Plan (April 2022)

(describe waste stream)

that will be shipped from the above address to Metalico, Inc.

(receiving company e.g., scrap metal dealer, recycler or smelter)

# 127 Filmore Ave. Buffalo NY 14210

(receiving company address)

Please contact the undersigned at (716) 432-7685

if you have any questions.

(phone number)

Sincerely,

# Jeffrey Poulsen on behalf of FMC

(print name of generator company representative)

# jeffrey.poulsen@parsons.com

(Email address)

Jeffrey Poulsen Digitally signed by Jeffrey Poulsen Date: 2023.11.17 08:26:10 -05'00'

(signature of generator company representative)

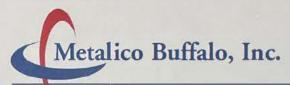
Submission by email to <a href="mailto:info.sqg@dec.ny.gov">info.sqg@dec.ny.gov</a> is preferred.

If submitting by mail to the address above or by fax to 518-402-9024, please direct to:

Attn: RCRA Compliance & Technical Support Section

Please email info.sqg@dec.ny.gov or call (518) 402-8652 if you have any questions about how to complete this form.





127 Fillmore Ave. • Buttalo, NY 14210 • Tel (716) 823-3788 • www.metalicobuttalo.com
Purchasers of all scrap iron & metals

January 19, 2024

By this letter Metalico confirms that they received shipment of scrap metal from the FMC Dublin Road Facility. All of the metals were received at Metalico Buffalo, Inc. Located at 127 Filmore Ave., Buffalo, NY 14210. Received materials were shipped for melting at mills, foundries, or smelting facilities. We further certify that any parts or products received will not re-enter the marketplace or be resold for any purpose other than to recover the value as scrapped material.

Roll off container shipped 11/28/2023, net weight 7,920 pounds Roll off container shipped 12/6/2023, net weight 12,160 pounds Roll off container shipped 12/20/2023, net weight 4,460 pounds

Tom Janowski
Metalico Buffalo, Inc.
127 Filmore Ave.
Buffalo, NY 14210

# PURCHASE RECEIPT

# Metalico Buffalo, Inc.

127 Fillmore Avenue
Buffalo, NY 14210
Metalico Buffalo 716-823-3788
Metalico Niagara 716-284-8729
Metalico South Park 716-823-4930

TKT#: 1185181 DATE: 11/28/2023

TIME: 13:37

Carrier: TRIZM SERVICES INC

**PARSONS** 

301 PLAINFIELD RD STE 350 ATTN MICHELLE GUGLIUZZA

SYRACUSE

NY 13212

12

AP

Commodity	Description	Gross	Tare	Ded.	Net
FE800 Commer	SHREDDER FEED nt: CONCRETE & DIRT	41,940	33,920	100	7,920
	Totals	41,940	33,920	100	7,920

I CERTIFY THAT I AM 18YRS OF AGE OR OLDER.
I AM THE LEGAL OWNER OF THE MATERIAL BEING SOLD
Accepted:

Accopted,

**OPEN MONDAY THROUGH FRIDAY 7:30-4:00** 

# PURCHASE RECEIPT

# Metalico Buffalo, Inc.

127 Fillmore Avenue Buffalo, NY 14210

Metalico Buffalo 716-823-3788 Metalico Niagara 716-284-8729 Metalico South Park 716-823-4930

TKT#: 1185445

DATE: 12/06/2023

TIME: 10:46

Carrier: TRIZM SERVICES INC

**PARSONS** 

301 PLAINFIELD RD STE 350 ATTN MICHELLE GUGLIUZZA

SYRACUSE

NY 13212

AP

Commodity	Description	Gross	Tare	Ded.	Net	I
FE201	HMS UNPREP SHEARING	46,600	34,440	0	12,160	
	Totals	46,600	34,440	0	12,160	ı

I CERTIFY THAT I AM 18YRS OF AGE OR OLDER. I AM THE LEGAL OWNER OF THE MATERIAL BEING SOLD

Accepted:

**OPEN MONDAY THROUGH FRIDAY 7:30-4:00** 

# PURCHASE RECEIPT

# Metalico Buffalo, Inc.

127 Fillmore Avenue
Buffalo, NY 14210
Metalico Buffalo 716-823-3788
Metalico Niagara 716-284-8729
Metalico South Park 716-823-4930

TKT#: 1185939

DATE: 12/20/2023

TIME: 09:51

AΡ

Carrier: TRIZM SERVICES INC

Amount

**PARSONS** 

301 PLAINFIELD RD STE 350 ATTN MICHELLE GUGLIUZZA

SYRACUSE

NY 13212

Commodity Description Gross Tare Ded. Net Price / UM FE301 P&S UNPREP SHEARING 39,120 34,660 4,460 Totals 39,120 34,660 0 4,460

I CERTIFY THAT I AM 18YRS OF AGE OR OLDER. I AM THE LEGAL OWNER OF THE MATERIAL BEING SOLD

Accepted:

**OPEN MONDAY THROUGH FRIDAY 7:30-4:00** 

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# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mr. Jeff Poulsen
Parsons Corporation
40 LaRiviere Drive
Suite 350
Buffalo, New York 14202
Generated 11/8/2023 7:15:42 AM

# **JOB DESCRIPTION**

**Dublin Road** 

# **JOB NUMBER**

480-214097-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298

# **Eurofins Buffalo**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

# **Authorization**

Generated 11/8/2023 7:15:42 AM

Authorized for release by Denise Heckler, Project Manager II Denise.Heckler@et.eurofinsus.com (330)966-9477

nuse Offeckler

Client: Parsons Corporation Project/Site: Dublin Road

Laboratory Job ID: 480-214097-1

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	11
QC Association Summary	21
Lab Chronicle	25
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

# **Definitions/Glossary**

Client: Parsons Corporation Job ID: 480-214097-1

Project/Site: Dublin Road

#### Qualifiers

#### **GC/MS Semi VOA**

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.

#### **GC Semi VOA**

Qualifier Qualifier Description

+ LCS and/or LCSD is outside acceptance limits, high biased.

B Compound was found in the blank and sample.

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

**Metals** 

Qualifier Qualifier Description

B Compound was found in the blank and sample.

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

**General Chemistry** 

Qualifier Qualifier Description

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Buffalo** 

Page 4 of 30 11/8/2023

### **Case Narrative**

Client: Parsons Corporation

Job ID: 480-214097-1

Project/Site: Dublin Road

Job ID: 480-214097-1

**Laboratory: Eurofins Buffalo** 

**Narrative** 

Job Narrative 480-214097-1

#### Receipt

The sample was received on 10/24/2023 4:40 PM. Unless otherwise noted below, the sample arrived in good condition. The temperature of the cooler at receipt was 19.1° C. The temperature is accepted as the samples arrived direct from the site.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-689977 recovered above the upper control limit for Dinoseb. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: DUBLIN PIPE 10242023 (480-214097-1).

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: DUBLIN PIPE 10242023 (480-214097-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method 8081B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-689172 and analytical batch 480-689312 recovered outside control limits for the following analytes: 4,4'-DDT. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): DUBLIN PIPE 10242023 (480-214097-1). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 1/50 dilution, which maintained the purple color during digestion.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: DUBLIN PIPE 10242023 (480-214097-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-689172.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# **Detection Summary**

Client: Parsons Corporation Job ID: 480-214097-1

Project/Site: Dublin Road

# Client Sample ID: DUBLIN PIPE 10242023

# Lab Sample ID: 480-214097-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Chloroform	0.016		0.0010	0.00034	mg/L		8260C	TCLP
alpha-BHC	0.015	JB	0.050	0.0077	ug/L	1	8081B	Total/NA
beta-BHC	0.041	J	0.050	0.025	ug/L	1	8081B	Total/NA
gamma-BHC (Lindane)	0.024	JB	0.050	0.0080	ug/L	1	8081B	Total/NA
4,4'-DDT	0.048	J *+	0.050	0.011	ug/L	1	8081B	Total/NA
Arsenic	0.015		0.015	0.0056	mg/L	1	200.7 Rev 4.4	Total/NA
Copper	0.18		0.010	0.0016	mg/L	1	200.7 Rev 4.4	Total/NA
Lead	0.0063	J	0.010	0.0030	mg/L	1	200.7 Rev 4.4	Total/NA
Zinc	0.10		0.010	0.0015	mg/L	1	200.7 Rev 4.4	Total/NA
Barium	0.020	В	0.0020	0.00070	mg/L	1	6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1	1010A	Total/NA
pH	8.04	HF	0.100	0.100	SU	1	9040C	Total/NA
Temperature	15.6	HF	0.00100	0.00100	Degrees C	1	9040C	Total/NA

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# **Client Sample Results**

**Client: Parsons Corporation** Job ID: 480-214097-1 Project/Site: Dublin Road

Client Sample ID: DUBLIN PIPE 10242023

Lab Sample ID: 480-214097-1 Date Collected: 10/24/23 13:00

**Matrix: Water** Date Received: 10/24/23 16:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.00021		0.0010	0.00021	mg/L			11/01/23 15:29	1
2-Butanone (MEK)	<0.0013		0.0050	0.0013	mg/L			11/01/23 15:29	1
Benzene	<0.00041		0.0010	0.00041	mg/L			11/01/23 15:29	1
Carbon tetrachloride	<0.00027		0.0010	0.00027	mg/L			11/01/23 15:29	1
Chlorobenzene	< 0.00075		0.0010	0.00075	mg/L			11/01/23 15:29	1
Chloroform	0.016		0.0010	0.00034	mg/L			11/01/23 15:29	1
Tetrachloroethene	<0.00036		0.0010	0.00036	mg/L			11/01/23 15:29	1
Trichloroethene	<0.00046		0.0010	0.00046	mg/L			11/01/23 15:29	1
Vinyl chloride	<0.00090		0.0010	0.00090	mg/L			11/01/23 15:29	1
1,1-Dichloroethene	<0.00029		0.0010	0.00029	mg/L			11/01/23 15:29	1
Methylene Chloride	<0.00044		0.0010	0.00044	mg/L			11/01/23 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		77 - 120					11/01/23 15:29	1
4-Bromofluorobenzene (Surr)	100		73 - 120					11/01/23 15:29	1
Toluene-d8 (Surr)	102		80 - 120					11/01/23 15:29	1
Dibromofluoromethane (Surr)	97		75 - 123					11/01/23 15:29	1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0018	0.040	0.0018	mg/L		11/01/23 14:25	11/02/23 18:47	1
2,4,5-Trichlorophenol	<0.0019	0.020	0.0019	mg/L		11/01/23 14:25	11/02/23 18:47	1
2,4,6-Trichlorophenol	<0.0024	0.020	0.0024	mg/L		11/01/23 14:25	11/02/23 18:47	1
2,4-Dinitrotoluene	<0.0017	0.020	0.0017	mg/L		11/01/23 14:25	11/02/23 18:47	1
2-Methylphenol	<0.0016	0.020	0.0016	mg/L		11/01/23 14:25	11/02/23 18:47	1
3-Methylphenol	<0.0016	0.040	0.0016	mg/L		11/01/23 14:25	11/02/23 18:47	1
4,6-Dinitro-2-methylphenol	<0.0088	0.040	0.0088	mg/L		11/01/23 14:25	11/02/23 18:47	1
4-Methylphenol	<0.0014	0.040	0.0014	mg/L		11/01/23 14:25	11/02/23 18:47	1
Dinoseb	<0.012	0.040	0.012	mg/L		11/01/23 14:25	11/02/23 18:47	1
Hexachlorobenzene	<0.0020	0.020	0.0020	mg/L		11/01/23 14:25	11/02/23 18:47	1
Hexachlorobutadiene	<0.0027	0.020	0.0027	mg/L		11/01/23 14:25	11/02/23 18:47	1
Hexachloroethane	<0.0023	0.020	0.0023	mg/L		11/01/23 14:25	11/02/23 18:47	1
Nitrobenzene	<0.0011	0.020	0.0011	mg/L		11/01/23 14:25	11/02/23 18:47	1
Pentachlorophenol	<0.0088	0.040	0.0088	mg/L		11/01/23 14:25	11/02/23 18:47	1
Pyridine	<0.0016	0.10	0.0016	mg/L		11/01/23 14:25	11/02/23 18:47	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		41 - 120	11/01/23 14:25	11/02/23 18:47	1
2-Fluorobiphenyl (Surr)	56		48 - 120	11/01/23 14:25	11/02/23 18:47	1
2-Fluorophenol (Surr)	31	S1-	35 - 120	11/01/23 14:25	11/02/23 18:47	1
Nitrobenzene-d5 (Surr)	56		46 - 120	11/01/23 14:25	11/02/23 18:47	1
Phenol-d5 (Surr)	22		22 - 120	11/01/23 14:25	11/02/23 18:47	1
p-Terphenyl-d14 (Surr)	96		60 - 148	11/01/23 14:25	11/02/23 18:47	1

Method: SW846 8081B - Organochlorine Pesticides (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
alpha-BHC	0.015	JB	0.050	0.0077	ug/L		10/26/23 09:41	10/27/23 13:57	1	
beta-BHC	0.041	J	0.050	0.025	ug/L		10/26/23 09:41	10/27/23 13:57	1	
delta-BHC	<0.010		0.050	0.010	ug/L		10/26/23 09:41	10/27/23 13:57	1	
gamma-BHC (Lindane)	0.024	JB	0.050	0.0080	ug/L		10/26/23 09:41	10/27/23 13:57	1	

Eurofins Buffalo

Page 7 of 30 11/8/2023

# **Client Sample Results**

Client: Parsons Corporation Job ID: 480-214097-1

Project/Site: Dublin Road

Client Sample ID: DUBLIN PIPE 10242023

Lab Sample ID: 480-214097-1 Date Collected: 10/24/23 13:00 **Matrix: Water** 

Date Received: 10/24/23 16:40

Method: SW846 8081B - Orga Analyte		Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fa
4,4'-DDT	0.048		0.050	0.011	ug/L		10/26/23 09:41	10/27/23 13:57	
4,4'-DDD	<0.0092		0.050	0.0092	•		10/26/23 09:41	10/27/23 13:57	
4,4'-DDE	<0.012		0.050	0.012	ug/L		10/26/23 09:41	10/27/23 13:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl	50		20 - 120				10/26/23 09:41	10/27/23 13:57	
DCB Decachlorobiphenyl	46		20 - 120				10/26/23 09:41	10/27/23 13:57	
Tetrachloro-m-xylene	95		44 - 120				10/26/23 09:41	10/27/23 13:57	
Tetrachloro-m-xylene	89		44 - 120				10/26/23 09:41	10/27/23 13:57	
Method: SW846 8151A - Herk	oicides (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Silvex (2,4,5-TP)	<0.052		0.52	0.052	ug/L		10/26/23 10:06	10/27/23 12:42	
2,4-D	<0.18		0.52	0.18	ug/L		10/26/23 10:06	10/27/23 12:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2,4-Dichlorophenylacetic acid	90		21 - 143				10/26/23 10:06	10/27/23 12:42	
2,4-Dichlorophenylacetic acid	81		21 - 143				10/26/23 10:06	10/27/23 12:42	
Method: EPA 200.7 Rev 4.4 -	Metals (ICP)								
Analyte	. ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	0.015		0.015	0.0056	mg/L		10/27/23 08:32	11/01/23 01:07	-
Copper	0.18		0.010	0.0016	mg/L		10/27/23 08:32	11/01/23 01:07	
Lead	0.0063	J	0.010	0.0030	mg/L		10/27/23 08:32	11/01/23 01:07	
Zinc	0.10		0.010	0.0015	mg/L		10/27/23 08:32	11/01/23 01:07	
Method: SW846 6010C - Meta	als (ICP) - TO	LP							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	<0.0056		0.015	0.0056	mg/L		11/01/23 10:18	11/03/23 16:03	
Barium	0.020	В	0.0020	0.00070	mg/L		11/01/23 10:18	11/03/23 16:03	
Cadmium	<0.00050		0.0020	0.00050	mg/L		11/01/23 10:18	11/03/23 16:03	
Chromium	<0.0010		0.0040	0.0010	mg/L		11/01/23 10:18	11/03/23 16:03	
_ead	< 0.0030		0.010	0.0030	mg/L		11/01/23 10:18	11/03/23 16:03	
Selenium	<0.0087		0.025	0.0087	mg/L		11/01/23 10:18	11/03/23 16:03	
Silver	<0.0017		0.0060	0.0017	mg/L		11/01/23 10:18	11/03/23 16:03	
Method: SW846 7470A - Merc	cury (CVAA)	- TCLP							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.0022		0.010	0.0022	mg/L		11/01/23 11:30	11/01/23 16:42	
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Flashpoint (SW846 1010A)	>180		50.0	50.0	Degrees F			10/26/23 11:19	
Cyanide, Reactive (SW846 9012)	<10.0		10.0	10.0	mg/L		11/01/23 11:00	11/03/23 11:20	
Sulfide, Reactive (SW846 9034)	<10.0		10.0	10.0	mg/L		11/01/23 11:00	11/03/23 11:40	
pH (SW846 9040C)	8.04	HF	0.100	0.100	SU			11/02/23 20:14	

Client: Parsons Corporation Job ID: 480-214097-1 Project/Site: Dublin Road

Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Water** Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID Client S	ample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-689766/6 Lab Con	trol Sample	86	98	101	102
MB 480-689766/9 Method	Blank	86	101	102	99

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Water Prep Type: TCLP** 

			Pe	ercent Surre	ogate Recovery	Acceptance Lim
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
480-214097-1	DUBLIN PIPE 10242023	83	100	102	97	
LB 480-689755/1-A	Method Blank	85	100	102	98	
Surrogate Legend						
DCA = 1,2-Dichloroet	thane-d4 (Surr)					
BFB = 4-Bromofluoro	benzene (Surr)					
TOL = Toluopo d9 (9	urr\					

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Water** Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco	very (Acce	otance Lim
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
LCS 480-689875/2-A	Lab Control Sample	96	94	51	89	37	97
LCSD 480-689875/3-A	Lab Control Sample Dup	96	92	48	86	38	98
MB 480-689875/1-A	Method Blank	76	95	51	93	35	105

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Water Prep Type: TCLP** 

			Pe	ercent Surre	ogate Reco	very (Acce <sub>l</sub>	otance Lim
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-214097-1	DUBLIN PIPE 10242023	55	56	31 S1-	56	22	96
LB 480-689754/1-D	Method Blank	80	94	50	92	36	104
Surrogate Legend							

TBP = 2,4,6-Tribromophenol (Surr)

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Page 9 of 30 11/8/2023

# **Surrogate Summary**

Client: Parsons Corporation Project/Site: Dublin Road

> FBP = 2-Fluorobiphenyl (Surr) 2FP = 2-Fluorophenol (Surr) NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

**Matrix: Water** Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-214097-1	DUBLIN PIPE 10242023	50	46	95	89
LCS 480-689172/2-A	Lab Control Sample	57	53	90	86
LCSD 480-689172/3-A	Lab Control Sample Dup	56	52	89	88
MB 480-689172/1-A	Method Blank	66	62	85	85

**Surrogate Legend** 

DCBP = DCB Decachlorobiphenyl TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

**Matrix: Water** Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		DCPAA1	DCPAA2					
Lab Sample ID	Client Sample ID	(21-143)	(21-143)					
480-214097-1	DUBLIN PIPE 10242023	90	81					
LCS 480-689183/2-A	Lab Control Sample	117	91					
MB 480-689183/1-A	Method Blank	90	63					
Surrogate Legend								
DCPAA = 2,4-Dichloro	phenylacetic acid							

Job ID: 480-214097-1

Job ID: 480-214097-1

Client: Parsons Corporation Project/Site: Dublin Road

### Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-689766/9

**Matrix: Water** 

Analysis Batch: 689766

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 1,2-Dichloroethane <0.00021 0.0010 0.00021 mg/L 11/01/23 14:03 2-Butanone (MEK) < 0.0013 0.0050 0.0013 mg/L 11/01/23 14:03 Benzene 0.0010 0.00041 mg/L 11/01/23 14:03 <0.00041 0.00027 mg/L Carbon tetrachloride < 0.00027 0.0010 11/01/23 14:03 Chlorobenzene < 0.00075 0.0010 0.00075 mg/L 11/01/23 14:03 Chloroform 0.0010 0.00034 mg/L 11/01/23 14:03 < 0.00034 Tetrachloroethene 0.0010 0.00036 mg/L 11/01/23 14:03 < 0.00036 Trichloroethene < 0.00046 0.0010 0.00046 mg/L 11/01/23 14:03 Vinyl chloride < 0.00090 0.0010 0.00090 mg/L 11/01/23 14:03 1,1-Dichloroethene < 0.00029 0.0010 0.00029 mg/L 11/01/23 14:03 Methylene Chloride < 0.00044 0.0010 0.00044 mg/L 11/01/23 14:03

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		77 - 120			11/01/23 14:03	1
4-Bromofluorobenzene (Surr)	101		73 - 120			11/01/23 14:03	1
Toluene-d8 (Surr)	102		80 - 120			11/01/23 14:03	1
Dibromofluoromethane (Surr)	99		75 - 123			11/01/23 14:03	1

Lab Sample ID: LCS 480-689766/6

**Matrix: Water** 

**Analysis Batch: 689766** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,2-Dichloroethane 0.0250 0.0201 81 75 - 120 mg/L 2-Butanone (MEK) 0.125 0.107 mg/L 86 57 - 140 0.0250 0.0252 101 71 - 124 Benzene mg/L Carbon tetrachloride 0.0250 0.0228 mg/L 91 72 - 134Chlorobenzene 0.0250 107 80 - 120 0.0269 mg/L Chloroform 0.0250 0.0235 mg/L 94 73 - 127 Tetrachloroethene 0.0250 0.0282 113 74 - 122 mg/L Trichloroethene 0.0250 0.0247 mg/L 99 74 - 123 Vinyl chloride 0.0250 0.0244 mg/L 98 65 - 133 0.0250 1,1-Dichloroethene 0.0246 99 66 - 127 mg/L Methylene Chloride 0.0250 0.0238 mg/L 95 75 - 124

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: LB 480-689755/1-A

**Matrix: Water** 

**Analysis Batch: 689766** 

**Client Sample ID: Method Blank** 

**Prep Type: TCLP** 

LB LB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.00021		0.0010	0.00021	mg/L			11/01/23 15:06	1
2-Butanone (MEK)	<0.0013		0.0050	0.0013	mg/L			11/01/23 15:06	1

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Page 11 of 30

1

1

Client: Parsons Corporation Job ID: 480-214097-1 Project/Site: Dublin Road

# Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-689755/1-A

**Matrix: Water** 

**Analysis Batch: 689766** 

Client Sample ID: Method Blank

**Prep Type: TCLP** 

	LB	LB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00041		0.0010	0.00041	mg/L			11/01/23 15:06	1
Carbon tetrachloride	<0.00027		0.0010	0.00027	mg/L			11/01/23 15:06	1
Chlorobenzene	<0.00075		0.0010	0.00075	mg/L			11/01/23 15:06	1
Chloroform	< 0.00034		0.0010	0.00034	mg/L			11/01/23 15:06	1
Tetrachloroethene	<0.00036		0.0010	0.00036	mg/L			11/01/23 15:06	1
Trichloroethene	<0.00046		0.0010	0.00046	mg/L			11/01/23 15:06	1
Vinyl chloride	<0.00090		0.0010	0.00090	mg/L			11/01/23 15:06	1
1,1-Dichloroethene	<0.00029		0.0010	0.00029	mg/L			11/01/23 15:06	1
Methylene Chloride	<0.00044		0.0010	0.00044	mg/L			11/01/23 15:06	1

LB LB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		77 - 120		11/01/23 15:06	1
4-Bromofluorobenzene (Surr)	100		73 - 120		11/01/23 15:06	1
Toluene-d8 (Surr)	102		80 - 120		11/01/23 15:06	1
Dibromofluoromethane (Surr)	98		75 - 123		11/01/23 15:06	1

# Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-689875/1-A

**Matrix: Water** 

**Analysis Batch: 689977** 

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 689875** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00045		0.010	0.00045	mg/L		11/01/23 14:25	11/02/23 15:12	1
2,4,5-Trichlorophenol	<0.00048		0.0050	0.00048	mg/L		11/01/23 14:25	11/02/23 15:12	1
2,4,6-Trichlorophenol	<0.00060		0.0050	0.00060	mg/L		11/01/23 14:25	11/02/23 15:12	1
2,4-Dinitrotoluene	<0.00043		0.0050	0.00043	mg/L		11/01/23 14:25	11/02/23 15:12	1
2-Methylphenol	<0.00040		0.0050	0.00040	mg/L		11/01/23 14:25	11/02/23 15:12	1
3-Methylphenol	<0.00040		0.010	0.00040	mg/L		11/01/23 14:25	11/02/23 15:12	1
4,6-Dinitro-2-methylphenol	<0.0022		0.010	0.0022	mg/L		11/01/23 14:25	11/02/23 15:12	1
4-Methylphenol	< 0.00035		0.010	0.00035	mg/L		11/01/23 14:25	11/02/23 15:12	1
Dinoseb	< 0.0029		0.010	0.0029	mg/L		11/01/23 14:25	11/02/23 15:12	1
Hexachlorobenzene	<0.00050		0.0050	0.00050	mg/L		11/01/23 14:25	11/02/23 15:12	1
Hexachlorobutadiene	<0.00068		0.0050	0.00068	mg/L		11/01/23 14:25	11/02/23 15:12	1
Hexachloroethane	<0.00058		0.0050	0.00058	mg/L		11/01/23 14:25	11/02/23 15:12	1
Nitrobenzene	<0.00028		0.0050	0.00028	mg/L		11/01/23 14:25	11/02/23 15:12	1
Pentachlorophenol	<0.0022		0.010	0.0022	mg/L		11/01/23 14:25	11/02/23 15:12	1
Pyridine	<0.00040		0.025	0.00040	mg/L		11/01/23 14:25	11/02/23 15:12	1
Pyridine	<0.00040		0.023	0.00040	IIIg/L		11/01/23 14.25	11/02/23 15.12	

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		41 - 120	11/01/23 14:25	11/02/23 15:12	1
2-Fluorobiphenyl (Surr)	95		48 - 120	11/01/23 14:25	11/02/23 15:12	1
2-Fluorophenol (Surr)	51		35 - 120	11/01/23 14:25	11/02/23 15:12	1
Nitrobenzene-d5 (Surr)	93		46 - 120	11/01/23 14:25	11/02/23 15:12	1
Phenol-d5 (Surr)	35		22 - 120	11/01/23 14:25	11/02/23 15:12	1
p-Terphenyl-d14 (Surr)	105		60 - 148	11/01/23 14:25	11/02/23 15:12	1

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100 100

Project/Site: Dublin Road

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-689875/2-A

**Matrix: Water** 

**Analysis Batch: 689977** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA **Prep Batch: 689875** 

	<b>Бріке</b>	LUS LU	<b>ა</b>		%Rec	
Analyte	Added	Result Qu	alifier Unit	D %Rec	Limits	
1,4-Dichlorobenzene	0.0500	0.0320	mg/L	64	42 - 120	
2,4,5-Trichlorophenol	0.0500	0.0465	mg/L	93	65 - 126	
2,4,6-Trichlorophenol	0.0500	0.0461	mg/L	92	64 - 120	
2,4-Dinitrotoluene	0.0500	0.0447	mg/L	89	69 - 120	
2-Methylphenol	0.0500	0.0355	mg/L	71	39 - 120	
3-Methylphenol	0.0500	0.0338	mg/L	68	39 - 120	
4,6-Dinitro-2-methylphenol	0.100	0.0900	mg/L	90	46 - 136	
4-Methylphenol	0.0500	0.0338	mg/L	68	29 - 131	
Hexachlorobenzene	0.0500	0.0465	mg/L	93	61 - 120	
Hexachlorobutadiene	0.0500	0.0335	mg/L	67	35 - 120	
Hexachloroethane	0.0500	0.0290	mg/L	58	33 - 120	
Nitrobenzene	0.0500	0.0415	mg/L	83	53 - 123	
Pentachlorophenol	0.100	0.0805	mg/L	80	29 - 136	
Pyridine	0.100	0.0496	mg/L	50	10 - 120	

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LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		41 - 120
2-Fluorobiphenyl (Surr)	94		48 - 120
2-Fluorophenol (Surr)	51		35 - 120
Nitrobenzene-d5 (Surr)	89		46 - 120
Phenol-d5 (Surr)	37		22 - 120
p-Terphenyl-d14 (Surr)	97		60 - 148

Lab Sample ID: LCSD 480-689875/3-A

**Matrix: Water** 

**Analysis Batch: 689977** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 689875** %Rec **RPD** 

LCSD LCSD Spike Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 0.0500 1,4-Dichlorobenzene 0.0312 mg/L 62 42 - 120 2 36 2,4,5-Trichlorophenol 0.0500 0.0437 mg/L 87 65 - 126 6 18 2,4,6-Trichlorophenol 0.0500 0.0439 mg/L 88 64 - 120 5 19 2,4-Dinitrotoluene 0.0500 0.0449 mg/L 90 69 - 120 0 20 71 27 2-Methylphenol 0.0500 0.0357 mg/L 39 - 120 3-Methylphenol 0.0500 0.0353 71 39 - 120 30 mg/L 46 - 136 4,6-Dinitro-2-methylphenol 0.100 0.0929 93 15 mg/L 4-Methylphenol 0.0500 0.0353 mg/L 71 29 - 131 24 Hexachlorobenzene 0.0500 0.0468 94 61 - 120 15 mg/L Hexachlorobutadiene 0.0500 0.0325 mg/L 65 35 - 120 44 Hexachloroethane 0.0500 0.0291 mg/L 58 33 - 120 46 Nitrobenzene 0.0500 0.0411 mg/L 82 53 - 123 24 Pentachlorophenol 0.100 0.0829 83 29 - 136 3 37 mg/L Pyridine 0.100 0.0533 53 10 - 120 49 mg/L

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		41 - 120
2-Fluorobiphenyl (Surr)	92		48 - 120
2-Fluorophenol (Surr)	48		35 - 120
Nitrobenzene-d5 (Surr)	86		46 - 120

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Page 13 of 30

Client: Parsons Corporation Job ID: 480-214097-1 Project/Site: Dublin Road

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-689875/3-A

**Matrix: Water** 

**Analysis Batch: 689977** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 689875** 

LCSD LCSD

Surrogate %Recovery Qualifier Limits Phenol-d5 (Surr) 38 22 - 120 p-Terphenyl-d14 (Surr) 98 60 - 148

Lab Sample ID: LB 480-689754/1-D **Client Sample ID: Method Blank** 

**Matrix: Water** 

**Analysis Batch: 689977** 

**Prep Type: TCLP** 

**Prep Batch: 689875** 

LB LB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dichlorobenzene <0.0018 0.040 0.0018 mg/L 11/01/23 14:25 11/02/23 16:48 0.0019 mg/L 2,4,5-Trichlorophenol < 0.0019 0.020 11/01/23 14:25 11/02/23 16:48 2,4,6-Trichlorophenol < 0.0024 0.020 0.0024 mg/L 11/01/23 14:25 11/02/23 16:48 2,4-Dinitrotoluene < 0.0017 0.020 0.0017 mg/L 11/01/23 14:25 11/02/23 16:48 2-Methylphenol < 0.0016 0.020 0.0016 mg/L 11/01/23 14:25 11/02/23 16:48 0.0016 mg/L 3-Methylphenol < 0.0016 0.040 11/01/23 14:25 11/02/23 16:48 4,6-Dinitro-2-methylphenol <0.0088 0.040 0.0088 mg/L 11/01/23 14:25 11/02/23 16:48 4-Methylphenol 0.040 0.0014 mg/L 11/01/23 14:25 11/02/23 16:48 < 0.0014 Dinoseb 0.040 0.012 mg/L 11/01/23 14:25 11/02/23 16:48 < 0.012 Hexachlorobenzene 0.020 0.0020 mg/L 11/01/23 14:25 11/02/23 16:48 < 0.0020 Hexachlorobutadiene <0.0027 0.020 0.0027 mg/L 11/01/23 14:25 11/02/23 16:48 Hexachloroethane 0.020 0.0023 mg/L 11/01/23 14:25 11/02/23 16:48 <0.0023 Nitrobenzene <0.0011 0.020 0.0011 mg/L 11/01/23 14:25 11/02/23 16:48 Pentachlorophenol <0.0088 0.040 0.0088 mg/L 11/01/23 14:25 11/02/23 16:48 Pyridine < 0.0016 0.10 0.0016 mg/L 11/01/23 14:25 11/02/23 16:48

	LD LD				
Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80	41 - 120	11/01/23 14:25	11/02/23 16:48	1
2-Fluorobiphenyl (Surr)	94	48 - 120	11/01/23 14:25	11/02/23 16:48	1
2-Fluorophenol (Surr)	50	35 - 120	11/01/23 14:25	11/02/23 16:48	1
Nitrobenzene-d5 (Surr)	92	46 - 120	11/01/23 14:25	11/02/23 16:48	1
Phenol-d5 (Surr)	36	22 - 120	11/01/23 14:25	11/02/23 16:48	1
p-Terphenyl-d14 (Surr)	104	60 - 148	11/01/23 14:25	11/02/23 16:48	1
<u> </u>					

### Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-689172/1-A

**Matrix: Water** 

Analysis Batch: 689312

**Client Sample ID: Method Blank** Prep Type: Total/NA

**Prep Batch: 689172** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0105	J	0.050	0.0077	ug/L		10/26/23 09:41	10/27/23 09:05	1
beta-BHC	<0.025		0.050	0.025	ug/L		10/26/23 09:41	10/27/23 09:05	1
delta-BHC	0.0148	J	0.050	0.010	ug/L		10/26/23 09:41	10/27/23 09:05	1
gamma-BHC (Lindane)	0.0105	J	0.050	0.0080	ug/L		10/26/23 09:41	10/27/23 09:05	1
4,4'-DDT	<0.011		0.050	0.011	ug/L		10/26/23 09:41	10/27/23 09:05	1
4,4'-DDD	<0.0092		0.050	0.0092	ug/L		10/26/23 09:41	10/27/23 09:05	1
4,4'-DDE	<0.012		0.050	0.012	ug/L		10/26/23 09:41	10/27/23 09:05	1

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Page 14 of 30

Client: Parsons Corporation Job ID: 480-214097-1 Project/Site: Dublin Road

# Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-689172/1-A

**Matrix: Water** 

**Analysis Batch: 689312** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

**Prep Batch: 689172** 

	IVIB IVI	iB			
Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66	20 - 120	10/26/23 09:41	10/27/23 09:05	1
DCB Decachlorobiphenyl	62	20 - 120	10/26/23 09:41	10/27/23 09:05	1
Tetrachloro-m-xylene	85	44 - 120	10/26/23 09:41	10/27/23 09:05	1
Tetrachloro-m-xylene	85	44 - 120	10/26/23 09:41	10/27/23 09:05	1

Lab Sample ID: LCS 480-689172/2-A

**Matrix: Water** 

Analysis Batch: 689312

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 689172** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
alpha-BHC	0.400	0.373		ug/L		93	52 - 125	
beta-BHC	0.400	0.406		ug/L		101	51 - 120	
delta-BHC	0.400	0.441		ug/L		110	51 - 120	
gamma-BHC (Lindane)	0.400	0.405		ug/L		101	56 - 120	
4,4'-DDT	0.400	0.543	*+	ug/L		136	59 - 120	
4,4'-DDD	0.400	0.468		ug/L		117	64 - 129	
4,4'-DDE	0.400	0.392		ug/L		98	50 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	57		20 - 120
DCB Decachlorobiphenyl	53		20 - 120
Tetrachloro-m-xylene	90		44 - 120
Tetrachloro-m-xylene	86		44 - 120

Lab Sample ID: LCSD 480-689172/3-A

**Matrix: Water** 

**Analysis Batch: 689312** 

<b>Client Samp</b>	ole ID: Lab	Control	Sample	Dup
Onchit Ourn	JIC ID. EUD		Cumpic	Dup

Prep Type: Total/NA

**Prep Batch: 689172** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
alpha-BHC	0.400	0.355		ug/L		89	52 - 125	5	24
beta-BHC	0.400	0.397		ug/L		99	51 - 120	2	24
delta-BHC	0.400	0.424		ug/L		106	51 - 120	4	24
gamma-BHC (Lindane)	0.400	0.385		ug/L		96	56 - 120	5	24
4,4'-DDT	0.400	0.557	*+	ug/L		139	59 - 120	3	24
4,4'-DDD	0.400	0.460		ug/L		115	64 - 129	2	23
4,4'-DDE	0.400	0.381		ug/L		95	50 - 120	3	22

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	56		20 - 120
DCB Decachlorobiphenyl	52		20 - 120
Tetrachloro-m-xylene	89		44 - 120
Tetrachloro-m-xylene	88		44 - 120

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11/8/2023

Project/Site: Dublin Road

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-689183/1-A

**Matrix: Water** 

Analysis Batch: 689387

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 689183** 

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte Silvex (2,4,5-TP) < 0.050 0.50 0.050 ug/L 10/26/23 10:06 10/27/23 12:08 2,4-D < 0.17 0.50 0.17 ug/L 10/26/23 10:06 10/27/23 12:08

MB MB

MB MB

%Recovery Qualifier Surrogate I imits Prepared Analyzed Dil Fac 2,4-Dichlorophenylacetic acid 90 21 - 143 10/26/23 10:06 10/27/23 12:08 2,4-Dichlorophenylacetic acid 63 21 - 143 10/26/23 10:06 10/27/23 12:08

Lab Sample ID: LCS 480-689183/2-A

**Matrix: Water** 

**Analysis Batch: 689387** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 689183** 

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit Silvex (2,4,5-TP) 2.00 1.91 96 49 - 150 ug/L 36 - 150 2,4-D 2.00 1.96 ug/L 98

LCS LCS

Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 21 - 143 117 21 - 143 2,4-Dichlorophenylacetic acid 91

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-689088/1-A

**Matrix: Water** 

**Analysis Batch: 689794** 

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 689088** 

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0056		0.015	0.0056	mg/L		10/27/23 08:32	11/01/23 00:23	1
Copper	<0.0016		0.010	0.0016	mg/L		10/27/23 08:32	11/01/23 00:23	1
Lead	< 0.0030		0.010	0.0030	mg/L		10/27/23 08:32	11/01/23 00:23	1
Zinc	<0.0015		0.010	0.0015	mg/L		10/27/23 08:32	11/01/23 00:23	1

Lab Sample ID: LCS 480-689088/2-A

**Matrix: Water** 

Analysis Batch: 689794

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 689088

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Arsenic 0.200 0.210 85 - 115 mg/L 105 Copper 0.200 0.209 mg/L 105 85 - 115 Lead 0.200 0.209 104 mg/L 85 - 115Zinc 0.200 0.198 mg/L 99 85 - 115

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-689779/2-A

**Matrix: Water** 

**Analysis Batch: 690399** 

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 689779** 

MB MB

Result Qualifier RI **MDL** Unit Analyzed Dil Fac **Analyte** Prepared 0.015 11/01/23 10:18 11/03/23 15:56 Arsenic <0.0056 0.0056 mg/L

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11/8/2023

Page 16 of 30

Project/Site: Dublin Road

# Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-689779/2-A

**Matrix: Water** 

Analysis Batch: 690399

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

**Prep Batch: 689779** 

		IVID	IVID							
Anal	yte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bariu	ım	<0.00070		0.0020	0.00070	mg/L		11/01/23 10:18	11/03/23 15:56	1
Cadn	mium	< 0.00050		0.0020	0.00050	mg/L		11/01/23 10:18	11/03/23 15:56	1
Chro	mium	<0.0010		0.0040	0.0010	mg/L		11/01/23 10:18	11/03/23 15:56	1
Lead		< 0.0030		0.010	0.0030	mg/L		11/01/23 10:18	11/03/23 15:56	1
Seler	nium	<0.0087		0.025	0.0087	mg/L		11/01/23 10:18	11/03/23 15:56	1
Silve	r	<0.0017		0.0060	0.0017	mg/L		11/01/23 10:18	11/03/23 15:56	1

Lab Sample ID: LCS 480-689779/3-A

**Matrix: Water** 

**Analysis Batch: 690399** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 689779** 

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1.00	1.06		mg/L		106	80 - 120	
Barium	1.00	1.14		mg/L		114	80 - 120	
Cadmium	1.00	1.12		mg/L		112	80 - 120	
Chromium	1.00	1.05		mg/L		105	80 - 120	
Lead	1.00	1.03		mg/L		103	80 - 120	
Selenium	1.00	1.04		mg/L		104	80 - 120	
Silver	1.00	0.993		mg/L		99	80 - 120	

Lab Sample ID: LB 480-689754/1-B

**Matrix: Water** 

Analysis Batch: 690399

**Client Sample ID: Method Blank** 

**Prep Type: TCLP Prep Batch: 689779** 

	LB	LB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0056		0.015	0.0056	mg/L		11/01/23 10:18	11/03/23 15:52	1
Barium	0.00127	J	0.0020	0.00070	mg/L		11/01/23 10:18	11/03/23 15:52	1
Cadmium	<0.00050		0.0020	0.00050	mg/L		11/01/23 10:18	11/03/23 15:52	1
Chromium	<0.0010		0.0040	0.0010	mg/L		11/01/23 10:18	11/03/23 15:52	1
Lead	<0.0030		0.010	0.0030	mg/L		11/01/23 10:18	11/03/23 15:52	1
Selenium	<0.0087		0.025	0.0087	mg/L		11/01/23 10:18	11/03/23 15:52	1
Silver	<0.0017		0.0060	0.0017	ma/L		11/01/23 10:18	11/03/23 15:52	1

Lab Sample ID: 480-214097-1 MS

**Matrix: Water** 

Analysis Batch: 690399

Client Sample ID: DUBLIN PIPE 10242023

**Prep Type: TCLP** 

**Prep Batch: 689779** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	<0.0056		1.00	1.06		mg/L		106	75 - 125	
Barium	0.020	В	1.00	1.11		mg/L		109	75 - 125	
Cadmium	<0.00050		1.00	1.10		mg/L		110	75 - 125	
Chromium	<0.0010		1.00	1.03		mg/L		103	75 - 125	
Lead	<0.0030		1.00	1.01		mg/L		101	75 - 125	
Selenium	<0.0087		1.00	1.03		mg/L		103	75 - 125	
Silver	<0.0017		1.00	0.967		mg/L		97	75 - 125	

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Project/Site: Dublin Road

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: DUBLIN PIPE 10242023 Lab Sample ID: 480-214097-1 MSD

**Matrix: Water** 

**Analysis Batch: 690399** 

**Prep Type: TCLP Prep Batch: 689779** 

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	<0.0056		1.00	1.05		mg/L		105	75 - 125	1	20
Barium	0.020	В	1.00	1.11		mg/L		109	75 - 125	0	20
Cadmium	< 0.00050		1.00	1.10		mg/L		110	75 - 125	1	20
Chromium	<0.0010		1.00	1.01		mg/L		101	75 - 125	2	20
Lead	<0.0030		1.00	1.00		mg/L		100	75 - 125	1	20
Selenium	<0.0087		1.00	1.02		mg/L		102	75 - 125	1	20
Silver	<0.0017		1.00	0.951		mg/L		95	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-689815/2-A **Client Sample ID: Method Blank** 

**Matrix: Water** 

Analysis Batch: 689909

Prep Type: Total/NA **Prep Batch: 689815** 

MB MB

Analyte **MDL** Unit Result Qualifier RL Prepared Analyzed Dil Fac 0.00020 0.000043 mg/L 11/01/23 11:30 11/01/23 16:38 Mercury < 0.000043

Lab Sample ID: LCS 480-689815/3-A Client Sample ID: Lab Control Sample

**Matrix: Water** 

**Analysis Batch: 689909** 

Prep Type: Total/NA **Prep Batch: 689815** 

%Rec

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits 0.00680 Mercury 0.00761 mg/L 112 80 - 120

Lab Sample ID: LCSD 480-689815/4-A Client Sample ID: Lab Control Sample Dup

**Matrix: Water** 

Analysis Batch: 689909

Prep Type: Total/NA **Prep Batch: 689815** 

Spike LCSD LCSD %Rec **RPD** Added Limits Analyte Result Qualifier Unit %Rec RPD Limit 0.00680 Mercury 0.00737 mg/L 108 80 - 120

Lab Sample ID: LB 480-689754/1-C **Client Sample ID: Method Blank Matrix: Water Prep Type: TCLP** 

**Analysis Batch: 689909** 

**Prep Batch: 689815** 

LB LB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 0.00020 Mercury < 0.000043 0.000043 mg/L 11/01/23 11:30 11/01/23 16:37

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-689205/1 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 689205** 

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits Flashpoint 81.0 82.00 Degrees F 101 97.5 - 102.

Project/Site: Dublin Road

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-690182/1-A

Analysis Batch: 690358

MB MB

Result Qualifier RL **RL** Unit Analyzed Dil Fac Analyte Prepared 10.0 11/01/23 11:00 11/03/23 11:17 Cyanide, Reactive <10.0 10.0 mg/L

LCS LCS

LCS LCS

DU DU

Result Qualifier

Result Qualifier

712.5

682.5

<10.0

RL

10.0

Result Qualifier

Unit

mg/L

Unit

mg/L

Unit

mg/L

Spike

Added

1000

Spike

Added

1000

Lab Sample ID: LCS 480-690182/2-A

**Matrix: Water** 

**Matrix: Water** 

**Analysis Batch: 690358** 

Cyanide, Reactive

Lab Sample ID: LCS 480-690182/2-A

**Matrix: Water Analysis Batch: 690358** 

Analyte

Cyanide, Reactive

Lab Sample ID: 480-214097-1 DU

**Matrix: Water** 

**Analysis Batch: 690358** 

Analyte

Cyanide, Reactive

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-690183/1-A

**Matrix: Water** 

**Analysis Batch: 690412** 

Analyte

Sulfide, Reactive

Analyte

Lab Sample ID: LCS 480-690183/2-A

**Matrix: Water Analysis Batch: 690412** 

Sulfide, Reactive

Lab Sample ID: 480-214097-1 DU

**Matrix: Water Analysis Batch: 690412** 

Analyte

Sulfide, Reactive

Result Qualifier <10.0

Sample Sample

Sample Sample

<10.0

Result Qualifier

MB MB

<10.0

Result Qualifier

Spike

Added

740

<10.0

DU DU

Result Qualifier

**RL Unit** 

10.0 mg/L

LCS LCS

581.1

Result Qualifier

Unit mg/L

Unit

mg/L

RPD Limit NC

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Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

D %Rec

%Rec

Prepared

%Rec

79

Client Sample ID: DUBLIN PIPE 10242023

68

Client Sample ID: DUBLIN PIPE 10242023

71

%Rec

Limits

%Rec

Limits

10 - 100

**Client Sample ID: Method Blank** 

11/01/23 11:00 11/03/23 11:40

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

10 - 100

**Client Sample ID: Lab Control Sample** 

10 - 100

Prep Type: Total/NA

Prep Batch: 690182

Prep Type: Total/NA

**Prep Batch: 690182** 

Prep Type: Total/NA

**Prep Batch: 690182** 

Prep Type: Total/NA

**Prep Batch: 690182** 

Prep Type: Total/NA

**Prep Batch: 690183** 

Prep Type: Total/NA

**Prep Batch: 690183** 

Prep Type: Total/NA

**Prep Batch: 690183** 

Analyzed

**RPD** 

**RPD** 

Limit

Dil Fac

20

RPD

# **QC Sample Results**

Client: Parsons Corporation Job ID: 480-214097-1

Project/Site: Dublin Road

Method: 9040C - pH

Lab Sample ID: LCS 480-690110/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 690110** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
pH	7.00	7.000		SU		100	99 - 101	_

# **QC Association Summary**

Client: Parsons Corporation

Project/Site: Dublin Road

Job ID: 480-214097-1

# **GC/MS VOA**

Leach Batch: 689755						
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	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	1311	
l	LB 480-689755/1-A	Method Blank	TCLP	Water	1311	

# **Analysis Batch: 689766**

Lab Sample ID 480-214097-1	Client Sample ID  DUBLIN PIPE 10242023	Prep Type TCLP	Matrix Water	Method 8260C	Prep Batch 689755
LB 480-689755/1-A	Method Blank	TCLP	Water	8260C	689755
MB 480-689766/9	Method Blank	Total/NA	Water	8260C	
LCS 480-689766/6	Lab Control Sample	Total/NA	Water	8260C	

# **GC/MS Semi VOA**

### Leach Batch: 689754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	1311	
LB 480-689754/1-D	Method Blank	TCLP	Water	1311	

# **Prep Batch: 689875**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	3510C	689754
LB 480-689754/1-D	Method Blank	TCLP	Water	3510C	689754
MB 480-689875/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-689875/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-689875/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

# **Analysis Batch: 689977**

<b>Lab Sample ID</b> 480-214097-1	Client Sample ID  DUBLIN PIPE 10242023	Prep Type TCLP	Matrix Water	Method 8270D	Prep Batch 689875
LB 480-689754/1-D	Method Blank	TCLP	Water	8270D	689875
MB 480-689875/1-A	Method Blank	Total/NA	Water	8270D	689875
LCS 480-689875/2-A	Lab Control Sample	Total/NA	Water	8270D	689875
LCSD 480-689875/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	689875

# **GC Semi VOA**

# **Prep Batch: 689172**

Lab Sample ID 480-214097-1	Client Sample ID DUBLIN PIPE 10242023	Prep Type Total/NA	Matrix Water	Method 3510C	Prep Batch
MB 480-689172/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-689172/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-689172/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

# **Prep Batch: 689183**

Lab Sample ID 480-214097-1	Client Sample ID  DUBLIN PIPE 10242023	Prep Type Total/NA	Matrix Water	Method 8151A	Prep Batch
MB 480-689183/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-689183/2-A	Lab Control Sample	Total/NA	Water	8151A	

# **Analysis Batch: 689312**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	8081B	689172
MB 480-689172/1-A	Method Blank	Total/NA	Water	8081B	689172

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# **QC Association Summary**

Client: Parsons Corporation

Project/Site: Dublin Road

Job ID: 480-214097-1

# GC Semi VOA (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-689172/2-A	Lab Control Sample	Total/NA	Water	8081B	689172
LCSD 480-689172/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	689172

# Analysis Batch: 689387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	8151A	689183
MB 480-689183/1-A	Method Blank	Total/NA	Water	8151A	689183
LCS 480-689183/2-A	Lab Control Sample	Total/NA	Water	8151A	689183

### Metals

# **Prep Batch: 689088**

Lab Sample ID 480-214097-1	Client Sample ID  DUBLIN PIPE 10242023	Prep Type Total/NA	Matrix Water	Method 200.7	Prep Batch
MB 480-689088/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-689088/2-A	Lab Control Sample	Total/NA	Water	200.7	

### Leach Batch: 689754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	1311	
LB 480-689754/1-B	Method Blank	TCLP	Water	1311	
LB 480-689754/1-C	Method Blank	TCLP	Water	1311	
480-214097-1 MS	DUBLIN PIPE 10242023	TCLP	Water	1311	
480-214097-1 MSD	DUBLIN PIPE 10242023	TCLP	Water	1311	

### **Prep Batch: 689779**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	3010A	689754
LB 480-689754/1-B	Method Blank	TCLP	Water	3010A	689754
MB 480-689779/2-A	Method Blank	Total/NA	Water	3010A	
LCS 480-689779/3-A	Lab Control Sample	Total/NA	Water	3010A	
480-214097-1 MS	DUBLIN PIPE 10242023	TCLP	Water	3010A	689754
480-214097-1 MSD	DUBLIN PIPE 10242023	TCLP	Water	3010A	689754

### Analysis Batch: 689794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1 MB 480-689088/1-A	DUBLIN PIPE 10242023 Method Blank	Total/NA Total/NA	Water Water	200.7 Rev 4.4 200.7 Rev 4.4	689088 689088
LCS 480-689088/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	689088

### **Prep Batch: 689815**

Lab Sample ID 480-214097-1	Client Sample ID  DUBLIN PIPE 10242023	Prep Type TCLP	Matrix Water	Method 7470A	Prep Batch 689754
LB 480-689754/1-C	Method Blank	TCLP	Water	7470A	689754
MB 480-689815/2-A	Method Blank	Total/NA	Water	7470A	
LCS 480-689815/3-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-689815/4-A	Lab Control Sample Dup	Total/NA	Water	7470A	

#### **Analysis Batch: 689909**

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch		
	480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	7470A	689815		

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11/8/2023

Page 22 of 30

2

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15

# **QC Association Summary**

Client: Parsons Corporation

Job ID: 480-214097-1

Project/Site: Dublin Road

# **Metals (Continued)**

# **Analysis Batch: 689909 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-689754/1-C	Method Blank	TCLP	Water	7470A	689815
MB 480-689815/2-A	Method Blank	Total/NA	Water	7470A	689815
LCS 480-689815/3-A	Lab Control Sample	Total/NA	Water	7470A	689815
LCSD 480-689815/4-A	Lab Control Sample Dup	Total/NA	Water	7470A	689815

# **Analysis Batch: 690399**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	TCLP	Water	6010C	689779
LB 480-689754/1-B	Method Blank	TCLP	Water	6010C	689779
MB 480-689779/2-A	Method Blank	Total/NA	Water	6010C	689779
LCS 480-689779/3-A	Lab Control Sample	Total/NA	Water	6010C	689779
480-214097-1 MS	DUBLIN PIPE 10242023	TCLP	Water	6010C	689779
480-214097-1 MSD	DUBLIN PIPE 10242023	TCLP	Water	6010C	689779

# **General Chemistry**

# **Analysis Batch: 689205**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	1010A	
LCS 480-689205/1	Lab Control Sample	Total/NA	Water	1010A	

### **Analysis Batch: 690110**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	9040C	
LCS 480-690110/1	Lab Control Sample	Total/NA	Water	9040C	

### **Prep Batch: 690182**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	7.3.3	
MB 480-690182/1-A	Method Blank	Total/NA	Water	7.3.3	
LCS 480-690182/2-A	Lab Control Sample	Total/NA	Water	7.3.3	
480-214097-1 DU	DUBLIN PIPE 10242023	Total/NA	Water	7.3.3	

### **Prep Batch: 690183**

<b>Lab Sample ID</b> 480-214097-1	Client Sample ID DUBLIN PIPE 10242023	Prep Type Total/NA	Matrix Water	Method 7.3.4	Prep Batch
MB 480-690183/1-A	Method Blank	Total/NA	Water	7.3.4	
LCS 480-690183/2-A	Lab Control Sample	Total/NA	Water	7.3.4	
480-214097-1 DU	DUBLIN PIPE 10242023	Total/NA	Water	7.3.4	

### **Analysis Batch: 690358**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	9012	690182
MB 480-690182/1-A	Method Blank	Total/NA	Water	9012	690182
LCS 480-690182/2-A	Lab Control Sample	Total/NA	Water	9012	690182
LCS 480-690182/2-A	Lab Control Sample	Total/NA	Water	9012	690182
480-214097-1 DU	DUBLIN PIPE 10242023	Total/NA	Water	9012	690182

### **Analysis Batch: 690412**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214097-1	DUBLIN PIPE 10242023	Total/NA	Water	9034	690183

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11/8/2023

Page 23 of 30

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# **QC Association Summary**

Client: Parsons Corporation Job ID: 480-214097-1

# Project/Site: Dublin Road

# **General Chemistry (Continued)**

# **Analysis Batch: 690412 (Continued)**

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	MB 480-690183/1-A	Method Blank	Total/NA	Water	9034	690183
	LCS 480-690183/2-A	Lab Control Sample	Total/NA	Water	9034	690183
ı	480-214097-1 DU	DUBLIN PIPE 10242023	Total/NA	Water	9034	690183

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# **Lab Chronicle**

Client: Parsons Corporation Job ID: 480-214097-1 Project/Site: Dublin Road

Client Sample ID: DUBLIN PIPE 10242023

Date Received: 10/24/23 16:40

Lab Sample ID: 480-214097-1 Date Collected: 10/24/23 13:00

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			689755	SMP	EET BUF	11/01/23 07:37 - 11/01/23 10:00 <sup>1</sup>
TCLP	Analysis	8260C		1	689766	ATG	EET BUF	11/01/23 15:29
TCLP	Leach	1311			689754	SMP	EET BUF	11/01/23 07:33 - 11/01/23 08:07 1
TCLP	Prep	3510C			689875	LSC	EET BUF	11/01/23 14:25
TCLP	Analysis	8270D		1	689977	JMM	EET BUF	11/02/23 18:47
Total/NA	Prep	3510C			689172	JMP	EET BUF	10/26/23 09:41
Total/NA	Analysis	8081B		1	689312	JLS	EET BUF	10/27/23 13:57
Total/NA	Prep	8151A			689183	JMP	EET BUF	10/26/23 10:06
Total/NA	Analysis	8151A		1	689387	MAN	EET BUF	10/27/23 12:42
Total/NA	Prep	200.7			689088	ESB	EET BUF	10/27/23 08:32
Total/NA	Analysis	200.7 Rev 4.4		1	689794	LMH	EET BUF	11/01/23 01:07
TCLP	Leach	1311			689754	SMP	EET BUF	11/01/23 07:33 - 11/01/23 08:07 1
TCLP	Prep	3010A			689779	MP	EET BUF	11/01/23 10:18
TCLP	Analysis	6010C		1	690399	LMH	EET BUF	11/03/23 16:03
TCLP	Leach	1311			689754	SMP	EET BUF	11/01/23 07:33 - 11/01/23 08:07 1
TCLP	Prep	7470A			689815	NVK	EET BUF	11/01/23 11:30
TCLP	Analysis	7470A		1	689909	NVK	EET BUF	11/01/23 16:42
Total/NA	Analysis	1010A		1	689205	KM	EET BUF	10/26/23 11:19
Total/NA	Prep	7.3.3			690182	AM	EET BUF	11/01/23 11:00
Total/NA	Analysis	9012		1	690358	AM	EET BUF	11/03/23 11:20
Total/NA	Prep	7.3.4			690183	AM	EET BUF	11/01/23 11:00
Total/NA	Analysis	9034		1	690412	AM	EET BUF	11/03/23 11:40
Total/NA	Analysis	9040C		1	690110	KB	EET BUF	11/02/23 20:14

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

### **Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# **Accreditation/Certification Summary**

Client: Parsons Corporation

Job ID: 480-214097-1

Project/Site: Dublin Road

# **Laboratory: Eurofins Buffalo**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	<b>Expiration Date</b>
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
1010A		Water	Flashpoint	
8270D	3510C	Water	Dinoseb	
9012	7.3.3	Water	Cyanide, Reactive	
9034	7.3.4	Water	Sulfide, Reactive	
9040C		Water	рН	
9040C		Water	Temperature	

11/8/2023

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# **Method Summary**

Client: Parsons Corporation Project/Site: Dublin Road

Job ID: 480-214097-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9040C	pH	SW846	EET BUF
1311	TCLP Extraction	SW846	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
3010A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

### **Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

**Eurofins Buffalo** 

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# **Sample Summary**

Client: Parsons Corporation Project/Site: Dublin Road

Job ID: 480-214097-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 480-214097-1
 DUBLIN PIPE 10242023
 Water
 10/24/23 13:00
 10/24/23 16:40

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19.1 #1 NO 14

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Letter Double Post and Post an	10   10   10   10   10   10   10   10	Contract	Sampling Co	PARSONS		EDD To:		Locus EIM			Loca	idon of Site:		fiddleport, h	>			Sampling Progra		T	Cabio
Particular City   Particular	Parameter Consequence Chore  Society Consequence Chore  Parameter Chore  Parame	Particle Direction   Contents   Particle		Name	Jeffrey Poulsen	Sampler(s):	Jeff Poulsen														Site
December   Constant	Continue   Entrop   Vivi Name   Vi	Charles   Control   Cont	Reporting Information	n Address	40 LaRiviere Drive	PO #									F					= =	# qor q
Compared	Constant	Content   Cont		City, State, Zip	Buffalo, NY 14202	Analysis T	umaround Time	(TAT):			Prese	rvathre						1	1		
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200   Delinical Road States   NY 12222   Full Report Not 1 Total	State   Contract   C	Sept.   Sept			Parsons	ž	oratory Contact		Denise Hecl	kler@eurofins 0) 966-8477	ıt.com	S elc		002) uZ '				stafa			
Sum   Superior   No. 1222	Spr. Survey   Spreading   Spring Mr. 1222   February   Spreading   Spring	120   120	Billing Information		301 Plainfield Road, Suite 350	- R	port Tier Level				1			qd '				men			
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Send Open   Company   Co	Sent Services  Source Company	Start Grown   Early   Principle   Stample   Dublin Pipe   10242023   13000 W/G   WATER   W   W   W   W   W   W   W   W   W		Attn:	michelle gugliuzza@parsons com		FMC RM			hric Moratti	1,50	-	_	A) :		(xə/	OAS				
Serf Charles   Serf	Sent Dept   Sept   Se	Sept Open   Sept   Peak Sample D		Sample	Identification	Sample Date	Sample Time	T	Sample Matrix	Sample		_		letale		riis)a	CLP	_			
Dublin Pipe 10242022	Dublin Pipe 10242023 13:00 WG WATER N G N X X X X X X X X X X X X X X X X X	Dublin Pipe 1022222	Location ID	Start Depth E		типере	1400					zijuj		v		1	1	-		60	Sampling Methoc
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		0 (nom): 14 Day 02; 2 (n/2) pt/2); 3 (nt/20, pt/2); 5 (nt/20, pt/2); 5 (nt/20, pt/2); 6 (nt/20, pt/2); 4 Day 03; 6 (nt/2); 9 (nt/2); 4 Day 03; 6 (nt/2); 6 (			Date/Time				M				Date/Time /	8010	50	16	0			0	Lab Quote #

Lab Sample Numbers

Page 1 of 1

Client: Parsons Corporation Job Number: 480-214097-1

Login Number: 214097 List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Creator. Stopa, Erik S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	PARSONS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

**Eurofins Buffalo** 



# APPENDIX E CARBON/FILTER MEDIA AND FILTER CAKE DISPOSAL RECORDS

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management 625 Broadway, 9th Floor, Albany, New York 12233-7256 P: (518) 402-8651 | F: (518) 402-9024 www.dec.ny.gov

January 4, 2024

# Sent via e-mail, no hard copy to follow

Chris Moretti
Remediation Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Re: Disposal Approval Determination Request FMC Corporation – Dublin Road Site DER Site No. 8-37-001

EPA I.D. No. NYD00511857

### Dear Chris Moretti:

The New York State Department of Environmental Conservation (NYSDEC or the Department) has reviewed your letter dated November 21, 2023 and updated December 18, 2023, requesting a "contained-in" determination for five 55-gallon drums containing filter cake media from the wastewater treatment plant filter cake press at the FMC's Dublin, New York facility.

### **Evaluation**

Concentrations (Sampling ID: 480-213803-1) detected for individual volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pesticides were all less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs, SVOCs and pesticides were not detected above the reporting limit. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Therefore, five 55-gallon drums of filter cake waste does not have to be managed as a hazardous waste and can be transported off-site to Modern Landfill (Modern) in Model City, New York or another permitted 360 solid waste facility able to accept this material, for disposal as non-hazardous waste.



Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9594 or email me at alison.egbon@dec.ny.gov.

Sincerely,

Alison Egbon

Assistant Environmental Engineer RCRA Technical Assistance Section

allon Eglen

ec: E. Kaptein, DEC



FMC Corporation 2929 Walnut Street Philadelphia, PA 19104 USA

215.299.6000 fmc.com

### Sent Via Email

December 18, 2023

Ms. Alison Egbon New York State Department of Environmental Conservation Division of Material Management, Bureau of Hazardous Waste and Radiation Management 625 Broadway, 9th Floor Albany, New York 12233-7256

Re: Disposal Approval Determination Request FMC Corporation – Dublin Road Site DER Site No. 8-37-001 EPA I.D. No. NYD00511857

Dear Ms. Egbon:

FMC Corporation (FMC) is requesting the New York State Department of Environmental Conservation's (NYSDEC) concurrence regarding the waste determination with respect to containers of filter cake and multimedia from the Decommissioned Water Treatment Plant located on Dublin Road, Medina, New York. Details of FMC's request are provided below.

From 1995 through 2012, the water treatment plant (WTP) was used to treat and discharge groundwater from the groundwater extraction wells and purge and sampling water from the groundwater monitoring wells (Figure 1) which are located outside of the containment cell. Pursuant to the NYSDEC-approved Decommissioning of Groundwater Extraction and Treatment Systems Work Plan (dated April 20, 2022) FMC has completed the closure of the WTP along with the removal of filter cake from the press and the sand media from the two multimedia filters. The wastes are staged in five 55-galllon drums pending analysis and disposal approval.

Composite samples were collected on October 16, 2023 and analyzed by Eurofins TestAmerica in Amherst, New York (NELAP No. 10026). A summary of the analytical results is included as Table 1 attached. A complete analytical data report is included in Attachment A.

Samples were analyzed for the following:

- TCLP VOCs including methylene chloride by USEPA Method 8260C,
- TCLP SVOCs including DNOC and dinoseb by USEPA Method 8270D,
- TCLP metals including mercury by USEPA Method 6010C/7470A,
- TCLP chlorinated pesticides by USEPA Method 8081B,
- TCLP chlorinated herbicides by EPA Method 8151A'
- Carbofuran by EPA Method 8270D,
- RCRA Characteristic Parameters (reactivity, corrosivity, and ignitability).

Based on the sample data presented herein, FMC is requesting NYSDEC concurrence to dispose of the materials as a non-hazardous waste at Modern Landfill in Model City, NY.

Ms. Egbon Page 2 December 18, 2023

Please feel free to contact me via email at <a href="mailto:christina.moretti@fmc.com">christina.moretti@fmc.com</a> or telephone at (215) 299-6252 if you would like to have a conference call or if you need any additional information.

Sincerely,

Chris Moretti

Remediation Manager

Enclosure: Figure 1 – Site Map

Chia Month.

Tables 1 – Data Summary

Laboratory Analytical Data Report J203803

ec:

H. Wilkie, NYSDEC, Albany

E. Kaptein, NYSDEC Region 8

M. Iddings, FMC Philadelphia

M. Hecker, HR

H. Philip/J. Poulsen, Parsons

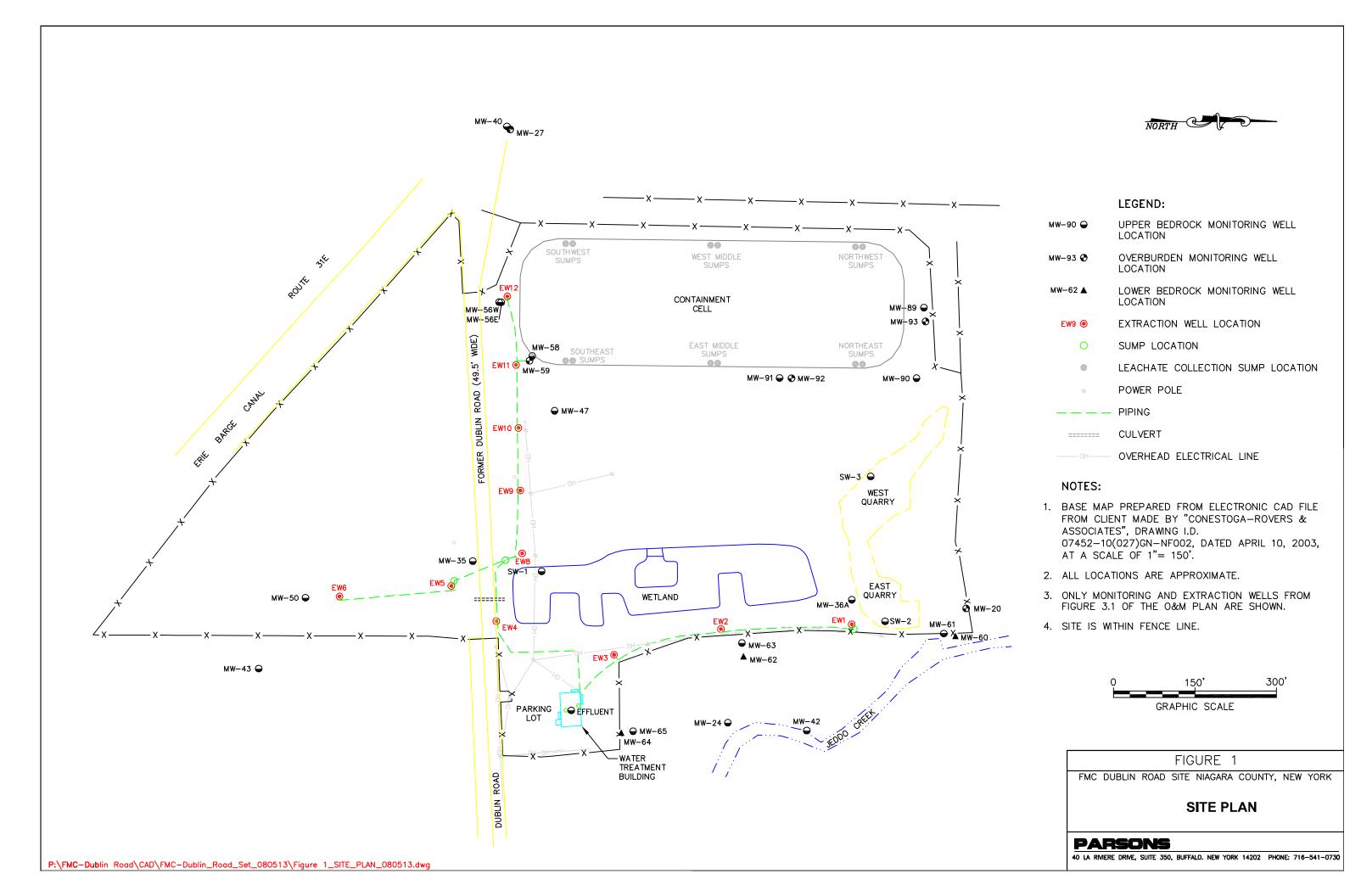


TABLE 1 WASTE CHARACTERIZATION DATA
DUBLIN ROAD SITE
FMC CORPORATION
OCTOBER 2023

OCTOBER 2023				
		Location ID:	Filter Cake/Multimed	lia
		Sample ID:	Filter Cake-1016202	23
		Sample Date:	October 16, 2023	
Analytical Parameter	UNITS	Regulatory Limit	unvalidated	
Volatile Organic Compounds - TCLP				
1,1-Dichloroethene	mg/L	0.7	0.0029	U
1,2-Dichloroethane 2-Butanone (MEK)	mg/L mg/L	0.5 200.0	0.0021 0.013	U U*+
Benzene	mg/L	200.0 0.5	0.013	U
Carbon tetrachloride	mg/L	0.5	0.0027	Ü
Chlorobenzene	mg/L	100.0	0.0027	Ü
Chloroform	mg/L	6.0	0.0034	Ŭ
Methylene chloride	mg/L		0.0057	JB
Tetrachloroethene	mg/L	0.7	0.0036	U
Trichloroethene	mg/L	0.5	0.0046	U
Vinyl chloride	mg/L	0.2	0.0090	U
Semi-volatile Organic Compounds -TCLP		7.5	0.0010	
1,4-Dichlorobenzene 2,4,5-Trichlorophenol	mg/L mg/L	7.5	0.0018	U
2,4,6-Trichlorophenol	mg/L	400.0 2.0	0.0019 0.0024	U
2.4-Dinitrotoluene	mg/L	0.13	0.0024	U
2-Methylphenol (o-cresol)	mg/L	200.0	0.0017	ŭ
3-Methylphenol (m-cresol)	mg/L	200.0	0.0016	Ŭ
4,6-Dinitro-2-methylphenol	mg/L		0.0088	Ü
4-Methylphenol (p-cresol)	mg/L	200.0	0.0014	U
Dinoseb	mg/L		0.012	U
Hexachlorobenzene	mg/L	0.13	0.0020	U
Hexachlorobutadiene	mg/L	0.5	0.0027	U
Hexachloroethane	mg/L	3.0	0.0023	U
Nitrobenzene	mg/L	2.0	0.0011	U
Pentachlorophenol Pyridine	mg/L	100.0 5.0	0.0088	U
Herbicides -TCLP	mg/L	5.0	0.0016	U
2,4-D	mg/L	10.0	0.00040	U
Silvex (2,4,5-TP)	mg/L	1.0	0.00036	Ū
Pesticides -TCLP				
Chlordane (technical)	mg/L	1.0	0.000029	U
Endrin	mg/L	0.02	0.000014	U
gamma-BHC (Lindane)	mg/L	0.4	0.0000060	U
Heptachlor	mg/L	0.008	0.0000085	U
Heptachlor epoxide	mg/L	0.008	0.0000053	U
Methoxychlor	mg/L	10.0	0.000014	U
Toxaphene	mg/L	0.5	0.00012	U
Metals - TCLP				
Arsenic	mg/L	5.0	0.0056	U
Barium	mg/L	100.0	0.10	U
Cadmium	mg/L	1.0	0.00050	Ū
Chromium	mg/L	5.0	0.010	IJ
				-
Lead	mg/L	5.0	0.0030	U
Mercury	mg/L	0.2	0.000043	U
Selenium	mg/L	1.0	0.0087	U
Silver	mg/L	5.0	0.0017	U
Carbofuran - TOTAL				
Carbofuran	mg/Kg		16	U
General Chemistry			170	
Flashpoint	Degrees F	<140	>176	
Cyanide, Reactive	mg/Kg		9.7	U
Sulfide, Reactive pH	mg/Kg SU	40 40	9.7	U
i e		<2 or >10	7.9 18.4	HF HF
Temperature	Degrees C		16.4	ПF
NOTES				

<sup>|</sup> Temperature Degrees C |
NOTES |
TCLP - Toxicity Characteristic Leaching Proceedure |
J - estimated concentration |
U - not detected at the associated reporting limit |
S - compound was found in the blank and the sample |
HF - Field parameter with a 15 minute holding time |
+ - LCS and/or LCSD is outside acceptance limits, high biased |
bolding: indicates compound was detected above the reporting limit

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# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mr. Jeff Poulsen
Parsons Corporation
40 LaRiviere Drive
Suite 350
Buffalo, New York 14202
Generated 11/7/2023 9:49:41 AM

# **JOB DESCRIPTION**

Waste

# **JOB NUMBER**

480-213803-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298



# **Eurofins Buffalo**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

# **Authorization**

Generated 11/7/2023 9:49:41 AM

Authorized for release by Denise Heckler, Project Manager II Denise.Heckler@et.eurofinsus.com (330)966-9477

nise Offeckler

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	15
QC Association Summary	26
Lab Chronicle	31
Certification Summary	33
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	39

4

6

8

10

11

13

14

# **Definitions/Glossary**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

### **Qualifiers**

### **GC/MS VOA**

Qualifier Description

\*+ LCS and/or LCSD is outside acceptance limits, high biased.

B Compound was found in the blank and sample.

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

### **HPLC/IC**

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

S1- Surrogate recovery exceeds control limits, low biased.

**Metals** 

Qualifier Qualifier Description

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

### **General Chemistry**

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

# **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Buffalo** 

Page 4 of 40 11/7/2023

3

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### **Case Narrative**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Job ID: 480-213803-1

**Laboratory: Eurofins Buffalo** 

**Narrative** 

Job Narrative 480-213803-1

### Receipt

The samples were received on 10/17/2023 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

### **GC/MS VOA**

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-688121. The following samples were affected: FILTER CAKE-10162023 (480-213803-1) and SPENT CARBON-10162023 (480-213803-2).

Method 8260C: The following samples were diluted due to the nature of the TCLP matrix: FILTER CAKE-10162023 (480-213803-1), SPENT CARBON-10162023 (480-213803-2) and (LB 480-687907/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### HPLC/IC

Method 8318A: Surrogate recovery for the following sample was outside control limits: SPENT CARBON-10162023 (480-213803-2). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method 6010C: The continuing calibration blank (CCB 480-689513/18) contained Total Chromium above the reporting limit (RL). All reported samples (LB 480-687902/1-B) and (MB 480-688083/2-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The continuing calibration blank (CCB 480-689513/23) contained Total Chromium above the reporting limit (RL). All reported samples FILTER CAKE-10162023 (480-213803-1), SPENT CARBON-10162023 (480-213803-2), (LB 480-687902/1-B) and (MB 480-688083/2-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The continuing calibration blank (CCB 480-689513/35) contained Total Chromium above the reporting limit (RL). All reported samples FILTER CAKE-10162023 (480-213803-1), SPENT CARBON-10162023 (480-213803-2) and (LCS 480-688083/3-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **General Chemistry**

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: FILTER CAKE-10162023 (480-213803-1) and SPENT CARBON-10162023 (480-213803-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **Organic Prep**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# **Detection Summary**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Client Sample ID: FILTER CAKE-10162023

Lab Sample ID: 480-213803-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DI	Method	Prep Type
Methylene Chloride	0.0057	JB	0.010	0.0044	mg/L	10	_ 8	8260C	TCLP
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pН	7.9	HF	0.1	0.1	SU	1	9	9045D	Total/NA
Temperature	18.4	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

Client Sample ID: SPENT CARBON-10162023

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L	_au o	amble	ID.	40U-	ZIJ	ous-z

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.013	В	0.010	0.0044	mg/L	10	_	8260C	TCLP
Lead	0.0085	J	0.020	0.0030	mg/L	1		6010C	TCLP
Selenium	0.015	J	0.025	0.0087	mg/L	1		6010C	TCLP
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	8.6	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

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# **Client Sample Results**

**Client: Parsons Corporation** Job ID: 480-213803-1

Project/Site: Waste

Client Sample ID: FILTER CAKE-10162023

Lab Sample ID: 480-213803-1 Date Collected: 10/16/23 13:00 **Matrix: Solid** 

Date Received: 10/17/23 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.0029		0.010	0.0029	mg/L			10/19/23 18:37	10
1,2-Dichloroethane	<0.0021		0.010	0.0021	mg/L			10/19/23 18:37	10
2-Butanone (MEK)	<0.013	*+	0.050	0.013	mg/L			10/19/23 18:37	10
Benzene	<0.0041		0.010	0.0041	mg/L			10/19/23 18:37	10
Carbon tetrachloride	<0.0027		0.010	0.0027	mg/L			10/19/23 18:37	10
Chlorobenzene	<0.0075		0.010	0.0075	mg/L			10/19/23 18:37	10
Chloroform	<0.0034		0.010	0.0034	mg/L			10/19/23 18:37	10
Tetrachloroethene	< 0.0036		0.010	0.0036	mg/L			10/19/23 18:37	10
Trichloroethene	<0.0046		0.010	0.0046	mg/L			10/19/23 18:37	10
Vinyl chloride	<0.0090		0.010	0.0090	mg/L			10/19/23 18:37	10
Methylene Chloride	0.0057	JB	0.010	0.0044	mg/L			10/19/23 18:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					10/19/23 18:37	10
4-Bromofluorobenzene (Surr)	106		73 - 120					10/19/23 18:37	10
Dibromofluoromethane (Surr)	104		75 - 123					10/19/23 18:37	10
Toluene-d8 (Surr)	107		80 - 120					10/19/23 18:37	10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0018	0.040	0.0018	mg/L		10/19/23 14:16	10/20/23 17:30	1
2,4,5-Trichlorophenol	<0.0019	0.020	0.0019	mg/L		10/19/23 14:16	10/20/23 17:30	1
2,4,6-Trichlorophenol	<0.0024	0.020	0.0024	mg/L		10/19/23 14:16	10/20/23 17:30	1
2,4-Dinitrotoluene	<0.0017	0.020	0.0017	mg/L		10/19/23 14:16	10/20/23 17:30	1
2-Methylphenol	<0.0016	0.020	0.0016	mg/L		10/19/23 14:16	10/20/23 17:30	1
3-Methylphenol	<0.0016	0.040	0.0016	mg/L		10/19/23 14:16	10/20/23 17:30	1
4,6-Dinitro-2-methylphenol	<0.0088	0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:30	1
4-Methylphenol	<0.0014	0.040	0.0014	mg/L		10/19/23 14:16	10/20/23 17:30	1
Dinoseb	<0.012	0.040	0.012	mg/L		10/19/23 14:16	10/20/23 17:30	1
Hexachlorobenzene	<0.0020	0.020	0.0020	mg/L		10/19/23 14:16	10/20/23 17:30	1
Hexachlorobutadiene	<0.0027	0.020	0.0027	mg/L		10/19/23 14:16	10/20/23 17:30	1
Hexachloroethane	<0.0023	0.020	0.0023	mg/L		10/19/23 14:16	10/20/23 17:30	1
Nitrobenzene	<0.0011	0.020	0.0011	mg/L		10/19/23 14:16	10/20/23 17:30	1
Pentachlorophenol	<0.0088	0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:30	1
Pyridine	<0.0016	0.10	0.0016	mg/L		10/19/23 14:16	10/20/23 17:30	1
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84	41 - 120	10/19/23 14:16	10/20/23 17:30	1
2-Fluorobiphenyl (Surr)	86	48 - 120	10/19/23 14:16	10/20/23 17:30	1
2-Fluorophenol (Surr)	47	35 - 120	10/19/23 14:16	10/20/23 17:30	1
Nitrobenzene-d5 (Surr)	85	46 - 120	10/19/23 14:16	10/20/23 17:30	1
Phenol-d5 (Surr)	33	22 - 120	10/19/23 14:16	10/20/23 17:30	1
p-Terphenyl-d14 (Surr)	96	60 - 148	10/19/23 14:16	10/20/23 17:30	1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.000029		0.0020	0.000029	mg/L		10/19/23 09:45	10/20/23 15:00	1
Endrin	<0.000014		0.00020	0.000014	mg/L		10/19/23 09:45	10/20/23 15:00	1
gamma-BHC (Lindane)	<0.0000060		0.00020	0.0000060	mg/L		10/19/23 09:45	10/20/23 15:00	1
Heptachlor	<0.0000085		0.00020	0.0000085	mg/L		10/19/23 09:45	10/20/23 15:00	1

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Page 7 of 40 11/7/2023

Project/Site: Waste

Client Sample ID: FILTER CAKE-10162023

Lab Sample ID: 480-213803-1 Date Collected: 10/16/23 13:00 **Matrix: Solid** 

Date Received: 10/17/23 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Heptachlor epoxide	<0.0000053		0.00020	0.000053	mg/L		10/19/23 09:45	10/20/23 15:00	
Methoxychlor	< 0.000014		0.00020	0.000014	mg/L		10/19/23 09:45	10/20/23 15:00	
Toxaphene	<0.00012		0.0020	0.00012	mg/L		10/19/23 09:45	10/20/23 15:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl	90		20 - 120				10/19/23 09:45	10/20/23 15:00	
DCB Decachlorobiphenyl	89		20 - 120				10/19/23 09:45	10/20/23 15:00	
Tetrachloro-m-xylene	106		44 - 120				10/19/23 09:45	10/20/23 15:00	
Tetrachloro-m-xylene	100		44 - 120				10/19/23 09:45	10/20/23 15:00	
Method: SW846 8151A - TCL	P Herbicides	- TCLP							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
2,4-D	<0.00040		0.0020	0.00040	mg/L		10/19/23 09:51	10/20/23 15:07	
Silvex (2,4,5-TP)	<0.00036		0.0020	0.00036	mg/L		10/19/23 09:51	10/20/23 15:07	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
2,4-Dichlorophenylacetic acid	59		21 - 143				10/19/23 09:51	10/20/23 15:07	
2,4-Dichlorophenylacetic acid	49		21 - 143				10/19/23 09:51	10/20/23 15:07	
Method: SW846 6010C - Meta	als (ICP) - TC	LP							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	<0.0056		0.015	0.0056	mg/L		10/19/23 09:40	10/28/23 03:06	
Barium	<0.10		1.0	0.10	mg/L		10/19/23 09:40	10/28/23 03:06	
Cadmium	<0.00050		0.0020	0.00050	mg/L		10/19/23 09:40	10/28/23 03:06	
Chromium	<0.010		0.020	0.010	mg/L		10/19/23 09:40	10/28/23 03:06	
Lead	<0.0030		0.020	0.0030	mg/L		10/19/23 09:40	10/28/23 03:06	
Selenium	<0.0087		0.025	0.0087	mg/L		10/19/23 09:40	10/28/23 03:06	
Silver	<0.0017		0.0060	0.0017	mg/L		10/19/23 09:40	10/28/23 03:06	
Method: SW846 7470A - Mer	• • • •								
Analyte		Qualifier	RL		Unit	_ D	Prepared	Analyzed	Dil Fa
Mercury	<0.000043		0.00020	0.000043	mg/L		10/19/23 11:14	10/20/23 08:33	
General Chemistry						_			
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Flashpoint (SW846 1010A)	>176		50.0	50.0	Degrees F			10/19/23 11:23	
Cyanide, Reactive (SW846 9012)	<9.7		9.7		mg/Kg		10/24/23 10:26	10/25/23 11:26	
Sulfide, Reactive (SW846 9034)	<9.7		9.7		mg/Kg		10/24/23 10:26	10/25/23 15:00	
pH (SW846 9045D)	7.9	HF	0.1	0.1	SU			10/18/23 19:45	
Temperature (SW846 9045D)			0.001		Degrees C			10/18/23 19:45	

Client Sample ID: FILTER CAKE-10162023 Lab Sample ID: 480-213803-1

Date Collected: 10/16/23 13:00 **Matrix: Solid** Date Received: 10/17/23 16:15 Percent Solids: 63.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	<16		78	16	ug/Kg	<del>*</del>	10/23/23 11:05	10/27/23 17:32	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-meth	30		10 - 131				10/23/23 11:05	10/27/23 17:32	20

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Page 8 of 40

# **Client Sample Results**

**Client: Parsons Corporation** Job ID: 480-213803-1

Project/Site: Waste

Client Sample ID: SPENT CARBON-10162023

Lab Sample ID: 480-213803-2 Date Collected: 10/16/23 13:05 **Matrix: Solid** 

Date Received: 10/17/23 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.0029		0.010	0.0029	mg/L			10/19/23 18:59	10
1,2-Dichloroethane	<0.0021		0.010	0.0021	mg/L			10/19/23 18:59	10
2-Butanone (MEK)	<0.013	*+	0.050	0.013	mg/L			10/19/23 18:59	10
Benzene	<0.0041		0.010	0.0041	mg/L			10/19/23 18:59	10
Carbon tetrachloride	<0.0027		0.010	0.0027	mg/L			10/19/23 18:59	10
Chlorobenzene	< 0.0075		0.010	0.0075	mg/L			10/19/23 18:59	10
Chloroform	<0.0034		0.010	0.0034	mg/L			10/19/23 18:59	10
Tetrachloroethene	< 0.0036		0.010	0.0036	mg/L			10/19/23 18:59	10
Trichloroethene	<0.0046		0.010	0.0046	mg/L			10/19/23 18:59	10
Vinyl chloride	<0.0090		0.010	0.0090	mg/L			10/19/23 18:59	10
Methylene Chloride	0.013	В	0.010	0.0044	mg/L			10/19/23 18:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					10/19/23 18:59	10
4-Bromofluorobenzene (Surr)	106		73 - 120					10/19/23 18:59	10
Dibromofluoromethane (Surr)	106		75 - 123					10/19/23 18:59	10
Toluene-d8 (Surr)	106		80 - 120					10/19/23 18:59	10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0018	0.040	0.0018	mg/L		10/19/23 14:16	10/20/23 17:53	1
2,4,5-Trichlorophenol	<0.0019	0.020	0.0019	mg/L		10/19/23 14:16	10/20/23 17:53	1
2,4,6-Trichlorophenol	<0.0024	0.020	0.0024	mg/L		10/19/23 14:16	10/20/23 17:53	1
2,4-Dinitrotoluene	<0.0017	0.020	0.0017	mg/L		10/19/23 14:16	10/20/23 17:53	1
2-Methylphenol	<0.0016	0.020	0.0016	mg/L		10/19/23 14:16	10/20/23 17:53	1
3-Methylphenol	<0.0016	0.040	0.0016	mg/L		10/19/23 14:16	10/20/23 17:53	1
4,6-Dinitro-2-methylphenol	<0.0088	0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:53	1
4-Methylphenol	<0.0014	0.040	0.0014	mg/L		10/19/23 14:16	10/20/23 17:53	1
Dinoseb	<0.012	0.040	0.012	mg/L		10/19/23 14:16	10/20/23 17:53	1
Hexachlorobenzene	<0.0020	0.020	0.0020	mg/L		10/19/23 14:16	10/20/23 17:53	1
Hexachlorobutadiene	<0.0027	0.020	0.0027	mg/L		10/19/23 14:16	10/20/23 17:53	1
Hexachloroethane	<0.0023	0.020	0.0023	mg/L		10/19/23 14:16	10/20/23 17:53	1
Nitrobenzene	<0.0011	0.020	0.0011	mg/L		10/19/23 14:16	10/20/23 17:53	1
Pentachlorophenol	<0.0088	0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:53	1
Pyridine	<0.0016	0.10	0.0016	mg/L		10/19/23 14:16	10/20/23 17:53	1
Surrements	0/Bassana Overliffer	l invite				Duamanad	A a l a .l	Dil 500

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85	41 - 120	10/19/23 14:16	10/20/23 17:53	1
2-Fluorobiphenyl (Surr)	78	48 - 120	10/19/23 14:16	10/20/23 17:53	1
2-Fluorophenol (Surr)	45	35 - 120	10/19/23 14:16	10/20/23 17:53	1
Nitrobenzene-d5 (Surr)	75	46 - 120	10/19/23 14:16	10/20/23 17:53	1
Phenol-d5 (Surr)	29	22 - 120	10/19/23 14:16	10/20/23 17:53	1
p-Terphenyl-d14 (Surr)	91	60 - 148	10/19/23 14:16	10/20/23 17:53	1

Method: SW846 8081B	- Organochlorine Pesticides	(GC) - TCLP	
Δnalvto	Result Qualifier	RI	MD

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.000029		0.0020	0.000029	mg/L		10/19/23 09:45	10/20/23 15:26	1
Endrin	<0.000014		0.00020	0.000014	mg/L		10/19/23 09:45	10/20/23 15:26	1
gamma-BHC (Lindane)	<0.0000060		0.00020	0.0000060	mg/L		10/19/23 09:45	10/20/23 15:26	1
Heptachlor	<0.0000085		0.00020	0.0000085	mg/L		10/19/23 09:45	10/20/23 15:26	1

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Page 9 of 40 11/7/2023

Job ID: 480-213803-1

Client: Parsons Corporation Project/Site: Waste

Client Sample ID: SPENT CARBON-10162023

Lab Sample ID: 480-213803-2 Date Collected: 10/16/23 13:05 **Matrix: Solid** 

Date Received: 10/17/23 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<0.000053		0.00020	0.0000053	mg/L		10/19/23 09:45	10/20/23 15:26	
Methoxychlor	<0.000014		0.00020	0.000014	mg/L		10/19/23 09:45	10/20/23 15:26	•
Toxaphene	<0.00012		0.0020	0.00012	mg/L		10/19/23 09:45	10/20/23 15:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl	89		20 - 120				10/19/23 09:45	10/20/23 15:26	
DCB Decachlorobiphenyl	74		20 - 120				10/19/23 09:45	10/20/23 15:26	
Tetrachloro-m-xylene	95		44 - 120				10/19/23 09:45	10/20/23 15:26	
Tetrachloro-m-xylene	96		44 - 120				10/19/23 09:45	10/20/23 15:26	
Method: SW846 8151A - TC	CLP Herbicides	- TCLP							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
2,4-D	<0.00040		0.0020	0.00040	mg/L		10/19/23 09:51	10/20/23 15:25	
Silvex (2,4,5-TP)	<0.00036		0.0020	0.00036	mg/L		10/19/23 09:51	10/20/23 15:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2,4-Dichlorophenylacetic acid	67		21 - 143				10/19/23 09:51	10/20/23 15:25	-
2,4-Dichlorophenylacetic acid	59		21 - 143				10/19/23 09:51	10/20/23 15:25	•
Method: SW846 6010C - Me	etals (ICP) - TC	LP							
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0056		0.015	0.0056	mg/L		10/19/23 09:40	10/28/23 03:10	•
Barium	<0.10		1.0		mg/L		10/19/23 09:40	10/28/23 03:10	•
Cadmium	<0.00050		0.0020	0.00050	mg/L		10/19/23 09:40	10/28/23 03:10	
Chromium	<0.010		0.020	0.010	mg/L		10/19/23 09:40	10/28/23 03:10	
Lead	0.0085	J	0.020	0.0030	mg/L		10/19/23 09:40	10/28/23 03:10	
Selenium	0.015	J	0.025	0.0087	mg/L		10/19/23 09:40	10/28/23 03:10	
Silver	<0.0017		0.0060	0.0017	mg/L		10/19/23 09:40	10/28/23 03:10	
Method: SW846 7470A - Me	ercury (CVAA)	- TCLP							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.00043		0.00020	0.000043	ma/l		10/19/23 11:14	10/20/23 08:34	

Sulfide, Reactive (SW846 9034) pH (SW846 9045D)

Flashpoint (SW846 1010A)

Cyanide, Reactive (SW846 9012)

Temperature (SW846 9045D)

Analyte

Client Sample ID: SPENT CARBON-10162023

Result Qualifier

>180

<9.7

<9.7 H

8.6 HF

18.1 HF

Lab Sample ID: 480-213803-2 Date Collected: 10/16/23 13:05 **Matrix: Solid** Date Received: 10/17/23 16:15 Percent Solids: 47.0

RL

50.0

9.7

9.7

0.1

0.001

**RL** Unit

50.0 Degrees F

9.7 mg/Kg

9.7 mg/Kg

0.001 Degrees C

0.1 SU

Prepared

Analyzed

10/19/23 11:27

10/18/23 19:45

10/18/23 19:45

10/24/23 10:26 10/25/23 11:28

10/24/23 10:26 10/25/23 15:00

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	<21		110	21	ug/Kg	<del>*</del>	10/23/23 11:05	10/27/23 18:21	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-meth	5	S1-	10 - 131				10/23/23 11:05	10/27/23 18:21	20

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Page 10 of 40

# **Client Sample Results**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

ylcarbamate

Date Received: 10/17/23 16:15

Client Sample ID: SPENT CARBON-10162023

Lab Sample ID: 480-213803-2 Date Collected: 10/16/23 13:05 **Matrix: Solid** 

Percent Solids: 47.0

Method: SW846 8318A - The Determination of Carbamate in Soils and Water by HPLC - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	<21	Н	110	21	ug/Kg	<del></del> <del></del>	11/03/23 10:45	11/03/23 23:30	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-meth	4	S1-	10 - 131				11/03/23 10:45	11/03/23 23:30	20

Project/Site: Waste

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

_			Pe	ercent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-688121/6	Lab Control Sample	109	104	99	104
LCSD 480-688121/7	Lab Control Sample Dup	109	106	98	106
MB 480-688121/9	Method Blank	106	110	102	105
Surrogate Legend					
DCA = 1,2-Dichloroeth	nane-d4 (Surr)				

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: TCLP

_			Pe	ercent Surre	ogate Rec
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-213803-1	FILTER CAKE-10162023	104	106	104	107
480-213803-2	SPENT CARBON-10162023	111	106	106	106
LB 480-687907/1-A	Method Blank	110	108	104	106
Surrogate Legend					
DCA = 1,2-Dichloroet	hane-d4 (Surr)				

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		ТВР	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)		
LCS 480-688195/2-A	Lab Control Sample	94	85	46	82	36	95		
LCSD 480-688195/3-A	Lab Control Sample Dup	97	92	53	89	39	98		
MB 480-688195/1-A	Method Blank	73	84	48	79	33	101		

**Surrogate Legend** 

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: TCLP

			Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14			
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)			
480-213803-1	FILTER CAKE-10162023	84	86	47	85	33	96			
480-213803-2	SPENT CARBON-10162023	85	78	45	75	29	91			

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11/7/2023

Page 12 of 40

2

3

6

7

10

12

13

14

Project/Site: Waste

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Matrix: Solid Prep Type: TCLP** 

		Percent Surrogate Recovery (Acceptance Limits						
		ТВР	FBP	2FP	NBZ	PHL	TPHd14	
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)	
LB 480-687902/1-F	Method Blank	65	70	43	72	28	85	

**Surrogate Legend** 

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

**Matrix: Solid** Prep Type: Total/NA

_			Pe	ercent Surre	ogate Rec
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
LCS 480-688127/2-A	Lab Control Sample	51	51	88	89
LCSD 480-688127/3-A	Lab Control Sample Dup	48	50	93	93
MB 480-688127/1-A	Method Blank	52	53	99	96
Surrogate Legend					
DCBP = DCB Decachlo	robiphenyl				

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

**Matrix: Solid Prep Type: TCLP** 

-			Pe	ercent Surre	ogate Reco
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-213803-1	FILTER CAKE-10162023	90	89	106	100
480-213803-2	SPENT CARBON-10162023	89	74	95	96
LB 480-687902/1-C	Method Blank	82	80	97	92
Surrogate Legend					
DCBP = DCB Decachl	orobiphenyl				
TCX = Tetrachloro-m->	kylene				

**Method: 8151A - TCLP Herbicides** 

**Matrix: Solid** Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCPAA1	DCPAA2						
Lab Sample ID	Client Sample ID	(21-143)	(21-143)						
LCS 480-688137/2-A	Lab Control Sample	92	83						
LCSD 480-688137/3-A	Lab Control Sample Dup	94	94						
MB 480-688137/1-A	Method Blank	108	88						
Surrogate Legend									
DCPAA = 2,4-Dichlorop	phenylacetic acid								

# **Surrogate Summary**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Method: 8151A - TCLP Herbicides

Matrix: Solid **Prep Type: TCLP** 

			Percent Surrogate Recovery (Acceptance L							
		DCPAA1	DCPAA2							
Lab Sample ID	Client Sample ID	(21-143)	(21-143)							
480-213803-1	FILTER CAKE-10162023	59	49							
480-213803-2	SPENT CARBON-10162023	67	59							
LB 480-687902/1-D	Method Blank	41	51							
Surrogate Legend										
DCPAA = 2,4-Dichlorop	phenylacetic acid									

Method: 8318A - The Determination of Carbamate in Soils and Water by HPLC

**Matrix: Solid** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BDMC	
Lab Sample ID	Client Sample ID	(10-131)	
480-213803-1	FILTER CAKE-10162023	30	
480-213803-2	SPENT CARBON-10162023	5 S1-	
480-213803-2 - RE	SPENT CARBON-10162023	4 S1-	
LCS 410-434407/2-A	Lab Control Sample	33	
LCS 410-439278/2-A	Lab Control Sample	27	
LCSD 410-434407/3-A	Lab Control Sample Dup	32	
LCSD 410-439278/3-A	Lab Control Sample Dup	27	
MB 410-434407/1-A	Method Blank	32	
MB 410-439278/1-A	Method Blank	28	

Job ID: 480-213803-1

Client: Parsons Corporation

Project/Site: Waste

# Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-688121/9

**Matrix: Solid** 

**Analysis Batch: 688121** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00029		0.0010	0.00029	mg/L			10/19/23 12:52	1
1,2-Dichloroethane	<0.00021		0.0010	0.00021	mg/L			10/19/23 12:52	1
2-Butanone (MEK)	<0.0013		0.0050	0.0013	mg/L			10/19/23 12:52	1
Benzene	<0.00041		0.0010	0.00041	mg/L			10/19/23 12:52	1
Carbon tetrachloride	<0.00027		0.0010	0.00027	mg/L			10/19/23 12:52	1
Chlorobenzene	<0.00075		0.0010	0.00075	mg/L			10/19/23 12:52	1
Chloroform	<0.00034		0.0010	0.00034	mg/L			10/19/23 12:52	1
Tetrachloroethene	<0.00036		0.0010	0.00036	mg/L			10/19/23 12:52	1
Trichloroethene	<0.00046		0.0010	0.00046	mg/L			10/19/23 12:52	1
Vinyl chloride	<0.00090		0.0010	0.00090	mg/L			10/19/23 12:52	1
Methylene Chloride	<0.00044		0.0010	0.00044	mg/L			10/19/23 12:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120	_		10/19/23 12:52	1
4-Bromofluorobenzene (Surr)	110		73 - 120			10/19/23 12:52	1
Dibromofluoromethane (Surr)	102		75 - 123			10/19/23 12:52	1
Toluene-d8 (Surr)	105		80 - 120			10/19/23 12:52	1

Lab Sample ID: LCS 480-688121/6

**Matrix: Solid** 

**Analysis Batch: 688121** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	0.0250	0.0273		mg/L		109	66 - 127
1,2-Dichloroethane	0.0250	0.0231		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.253	*+	mg/L		203	57 <sub>-</sub> 140
Benzene	0.0250	0.0245		mg/L		98	71 - 124
Carbon tetrachloride	0.0250	0.0273		mg/L		109	72 - 134
Chlorobenzene	0.0250	0.0244		mg/L		98	80 - 120
Chloroform	0.0250	0.0231		mg/L		92	73 - 127
Tetrachloroethene	0.0250	0.0250		mg/L		100	74 - 122
Trichloroethene	0.0250	0.0245		mg/L		98	74 - 123
Vinyl chloride	0.0250	0.0252		mg/L		101	65 - 133
Methylene Chloride	0.0250	0.0241		mg/L		97	75 - 124

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: LCSD 480-688121/7

**Matrix: Solid** 

Analysis Batch: 688121

Allalysis Batch. 600121									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	0.0250	0.0276		mg/L		110	66 - 127	1	16
1,2-Dichloroethane	0.0250	0.0226		mg/L		91	75 - 120	2	20

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Page 15 of 40

**Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Project/Site: Waste

# Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-688121/7

**Matrix: Solid** 

Analysis Batch: 688121

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Butanone (MEK)	0.125	0.252	*+	mg/L		202	57 - 140	0	20
Benzene	0.0250	0.0246		mg/L		98	71 - 124	0	13
Carbon tetrachloride	0.0250	0.0278		mg/L		111	72 - 134	2	15
Chlorobenzene	0.0250	0.0250		mg/L		100	80 - 120	3	25
Chloroform	0.0250	0.0228		mg/L		91	73 - 127	1	20
Tetrachloroethene	0.0250	0.0264		mg/L		106	74 - 122	5	20
Trichloroethene	0.0250	0.0249		mg/L		100	74 - 123	2	16
Vinyl chloride	0.0250	0.0251		mg/L		100	65 - 133	0	15
Methylene Chloride	0.0250	0.0240		mg/L		96	75 - 124	0	15

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LB 480-687907/1-A

**Matrix: Solid** 

**Analysis Batch: 688121** 

**Client Sample ID: Method Blank** 

**Prep Type: TCLP** 

LB LB

Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.0029	0.010	0.0029	mg/L			10/19/23 17:31	10
1,2-Dichloroethane	<0.0021	0.010	0.0021	mg/L			10/19/23 17:31	10
2-Butanone (MEK)	<0.013	0.050	0.013	mg/L			10/19/23 17:31	10
Benzene	<0.0041	0.010	0.0041	mg/L			10/19/23 17:31	10
Carbon tetrachloride	<0.0027	0.010	0.0027	mg/L			10/19/23 17:31	10
Chlorobenzene	< 0.0075	0.010	0.0075	mg/L			10/19/23 17:31	10
Chloroform	<0.0034	0.010	0.0034	mg/L			10/19/23 17:31	10
Tetrachloroethene	< 0.0036	0.010	0.0036	mg/L			10/19/23 17:31	10
Trichloroethene	<0.0046	0.010	0.0046	mg/L			10/19/23 17:31	10
Vinyl chloride	<0.0090	0.010	0.0090	mg/L			10/19/23 17:31	10
Methylene Chloride	0.00996 J	0.010	0.0044	mg/L			10/19/23 17:31	10

LB LB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	77 - 120		10/19/23 17:31	10
4-Bromofluorobenzene (Surr)	108	73 - 120		10/19/23 17:31	10
Dibromofluoromethane (Surr)	104	75 - 123		10/19/23 17:31	10
Toluene-d8 (Surr)	106	80 - 120		10/19/23 17:31	10

# Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-688195/1-A

**Matrix: Solid** 

**Analysis Batch: 688289** 

**Client Sample ID: Method Blank** Prep Type: Total/NA **Prep Batch: 688195** MR MR

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00045	0.010	0.00045	mg/L		10/19/23 14:16	10/20/23 15:55	1
2,4,5-Trichlorophenol	<0.00048	0.0050	0.00048	mg/L		10/19/23 14:16	10/20/23 15:55	1

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Page 16 of 40

Project/Site: Waste

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 480-688195/1-A

**Matrix: Solid** 

**Analysis Batch: 688289** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

**Prep Batch: 688195** 

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.00060		0.0050	0.00060	mg/L		10/19/23 14:16	10/20/23 15:55	1
2,4-Dinitrotoluene	<0.00043		0.0050	0.00043	mg/L		10/19/23 14:16	10/20/23 15:55	1
2-Methylphenol	<0.00040		0.0050	0.00040	mg/L		10/19/23 14:16	10/20/23 15:55	1
3-Methylphenol	<0.00040		0.010	0.00040	mg/L		10/19/23 14:16	10/20/23 15:55	1
4,6-Dinitro-2-methylphenol	<0.0022		0.010	0.0022	mg/L		10/19/23 14:16	10/20/23 15:55	1
4-Methylphenol	< 0.00035		0.010	0.00035	mg/L		10/19/23 14:16	10/20/23 15:55	1
Dinoseb	<0.0029		0.010	0.0029	mg/L		10/19/23 14:16	10/20/23 15:55	1
Hexachlorobenzene	<0.00050		0.0050	0.00050	mg/L		10/19/23 14:16	10/20/23 15:55	1
Hexachlorobutadiene	<0.00068		0.0050	0.00068	mg/L		10/19/23 14:16	10/20/23 15:55	1
Hexachloroethane	<0.00058		0.0050	0.00058	mg/L		10/19/23 14:16	10/20/23 15:55	1
Nitrobenzene	<0.00028		0.0050	0.00028	mg/L		10/19/23 14:16	10/20/23 15:55	1
Pentachlorophenol	<0.0022		0.010	0.0022	mg/L		10/19/23 14:16	10/20/23 15:55	1
Pyridine	<0.00040		0.025	0.00040	mg/L		10/19/23 14:16	10/20/23 15:55	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73	41 - 120	10/19/23 14:16	10/20/23 15:55	1
2-Fluorobiphenyl (Surr)	84	48 - 120	10/19/23 14:16	10/20/23 15:55	1
2-Fluorophenol (Surr)	48	35 - 120	10/19/23 14:16	10/20/23 15:55	1
Nitrobenzene-d5 (Surr)	79	46 - 120	10/19/23 14:16	10/20/23 15:55	1
Phenol-d5 (Surr)	33	22 - 120	10/19/23 14:16	10/20/23 15:55	1
p-Terphenyl-d14 (Surr)	101	60 - 148	10/19/23 14:16	10/20/23 15:55	1

Lab Sample ID: LCS 480-688195/2-A

**Matrix: Solid** 

**Analysis Batch: 688289** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Prep Batch: 688195** 

-	Spike	LCS LC	S			%Rec
Analyte	Added	Result Qu	alifier Unit	D	%Rec	Limits
1,4-Dichlorobenzene	0.0500	0.0278	mg/L		56	42 - 120
2,4,5-Trichlorophenol	0.0500	0.0435	mg/L		87	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0431	mg/L		86	64 - 120
2,4-Dinitrotoluene	0.0500	0.0458	mg/L		92	69 - 120
2-Methylphenol	0.0500	0.0353	mg/L		71	39 - 120
3-Methylphenol	0.0500	0.0336	mg/L		67	39 - 120
4,6-Dinitro-2-methylphenol	0.100	0.0930	mg/L		93	46 - 136
4-Methylphenol	0.0500	0.0336	mg/L		67	29 - 131
Hexachlorobenzene	0.0500	0.0459	mg/L		92	61 - 120
Hexachlorobutadiene	0.0500	0.0288	mg/L		58	35 - 120
Hexachloroethane	0.0500	0.0251	mg/L		50	33 - 120
Nitrobenzene	0.0500	0.0399	mg/L		80	53 - 123
Pentachlorophenol	0.100	0.0879	mg/L		88	29 - 136
Pyridine	0.100	0.0475	mg/L		48	10 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		41 - 120
2-Fluorobiphenyl (Surr)	85		48 - 120
2-Fluorophenol (Surr)	46		35 - 120
Nitrobenzene-d5 (Surr)	82		46 - 120
Phenol-d5 (Surr)	36		22 - 120

**Eurofins Buffalo** 

# QC Sample Results

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-688195/2-A

Lab Sample ID: LCSD 480-688195/3-A

**Matrix: Solid** 

**Matrix: Solid** 

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

4,6-Dinitro-2-methylphenol

2,4-Dinitrotoluene

2-Methylphenol

3-Methylphenol

**Analyte** 

**Analysis Batch: 688289** 

Analysis Batch: 688289

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 688195** 

LCS LCS

%Recovery Qualifier Limits Surrogate p-Terphenyl-d14 (Surr) 60 - 148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 688195** 

%Rec **RPD** Limit

LCSD LCSD Limits RPD Result Qualifier Unit D %Rec 0.0313 mg/L 63 42 - 120 12 0.0499 mg/L 100 65 - 126 14

0.0500 18 0.0500 0.0453 mg/L 91 64 - 1205 19 69 - 120 0.0500 0.0491 7 20 mg/L 98 0.0500 0.0395 mg/L 79 39 - 120 11 27 0.0500 0.0381 mg/L 76 39 - 120 13 30 3 0.100 0.0963 mg/L 96 46 - 136 15 76 0.0500 0.0381 mg/L 29 - 131 13 24 15

4-Methylphenol Hexachlorobenzene 0.0500 0.0482 mg/L 96 61 - 120 5 Hexachlorobutadiene 0.0500 65 35 - 120 0.0323 mg/L 11 Hexachloroethane 0.0500 0.0289 58 33 - 120mg/L 14 86

46 Nitrobenzene 0.0500 0.0431 mg/L 53 - 123 24 Pentachlorophenol 0.100 0.0910 91 29 - 136 3 37 mg/L Pyridine 0.100 0.0492 49 10 - 120 49 mg/L

Spike

Added

0.0500

LCSD LCSD Surrogate %Recovery Qualifier Limits 41 - 120 2,4,6-Tribromophenol (Surr) 97 2-Fluorobiphenyl (Surr) 92 48 - 120 2-Fluorophenol (Surr) 53 35 - 120 Nitrobenzene-d5 (Surr) 89 46 - 120 Phenol-d5 (Surr) 39 22 - 120 60 - 148 p-Terphenyl-d14 (Surr) 98

Lab Sample ID: LB 480-687902/1-F **Client Sample ID: Method Blank** 

**Matrix: Solid Analysis Batch: 688289** 

ID ID

**Prep Type: TCLP Prep Batch: 688195** 

	LB	LB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0018		0.040	0.0018	mg/L		10/19/23 14:16	10/20/23 17:06	1
2,4,5-Trichlorophenol	<0.0019		0.020	0.0019	mg/L		10/19/23 14:16	10/20/23 17:06	1
2,4,6-Trichlorophenol	<0.0024		0.020	0.0024	mg/L		10/19/23 14:16	10/20/23 17:06	1
2,4-Dinitrotoluene	<0.0017		0.020	0.0017	mg/L		10/19/23 14:16	10/20/23 17:06	1
2-Methylphenol	<0.0016		0.020	0.0016	mg/L		10/19/23 14:16	10/20/23 17:06	1
3-Methylphenol	<0.0016		0.040	0.0016	mg/L		10/19/23 14:16	10/20/23 17:06	1
4,6-Dinitro-2-methylphenol	<0.0088		0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:06	1
4-Methylphenol	<0.0014		0.040	0.0014	mg/L		10/19/23 14:16	10/20/23 17:06	1
Dinoseb	<0.012		0.040	0.012	mg/L		10/19/23 14:16	10/20/23 17:06	1
Hexachlorobenzene	<0.0020		0.020	0.0020	mg/L		10/19/23 14:16	10/20/23 17:06	1
Hexachlorobutadiene	<0.0027		0.020	0.0027	mg/L		10/19/23 14:16	10/20/23 17:06	1
Hexachloroethane	<0.0023		0.020	0.0023	mg/L		10/19/23 14:16	10/20/23 17:06	1
Nitrobenzene	<0.0011		0.020	0.0011	mg/L		10/19/23 14:16	10/20/23 17:06	1

11/7/2023

Page 18 of 40

36

Project/Site: Waste

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-687902/1-F **Matrix: Solid** 

**Analysis Batch: 688289** 

LB LB

**Client Sample ID: Method Blank** 

**Prep Type: TCLP** 

**Prep Batch: 688195** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.0088		0.040	0.0088	mg/L		10/19/23 14:16	10/20/23 17:06	1
Pyridine	<0.0016		0.10	0.0016	mg/L		10/19/23 14:16	10/20/23 17:06	1

	LB LB				
Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65	41 - 120	10/19/23 14:16	10/20/23 17:06	1
2-Fluorobiphenyl (Surr)	70	48 - 120	10/19/23 14:16	10/20/23 17:06	1
2-Fluorophenol (Surr)	43	35 - 120	10/19/23 14:16	10/20/23 17:06	1
Nitrobenzene-d5 (Surr)	72	46 - 120	10/19/23 14:16	10/20/23 17:06	1
Phenol-d5 (Surr)	28	22 - 120	10/19/23 14:16	10/20/23 17:06	1
p-Terphenyl-d14 (Surr)	85	60 - 148	10/19/23 14:16	10/20/23 17:06	1
<b>—</b>					

# Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-688127/1-A

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 688271								Prep Batch:	688127
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.0000073		0.00050	0.0000073	mg/L		10/19/23 09:45	10/20/23 11:37	1
Endrin	<0.0000035		0.000050	0.0000035	mg/L		10/19/23 09:45	10/20/23 11:37	1
gamma-BHC (Lindane)	<0.0000015		0.000050	0.0000015	mg/L		10/19/23 09:45	10/20/23 11:37	1
Heptachlor	<0.0000021		0.000050	0.0000021	mg/L		10/19/23 09:45	10/20/23 11:37	1
Heptachlor epoxide	<0.0000013		0.000050	0.0000013	mg/L		10/19/23 09:45	10/20/23 11:37	1
Methoxychlor	< 0.0000035		0.000050	0.0000035	mg/L		10/19/23 09:45	10/20/23 11:37	1

0.00050

< 0.000030

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		20 - 120	10/19/23 09:45	10/20/23 11:37	1
DCB Decachlorobiphenyl	53		20 - 120	10/19/23 09:45	10/20/23 11:37	1
Tetrachloro-m-xylene	99		44 - 120	10/19/23 09:45	10/20/23 11:37	1
Tetrachloro-m-xvlene	96		44 - 120	10/19/23 09:45	10/20/23 11:37	1

0.000030 mg/L

Lab Sample ID: LCS 480-688127/2-A

**Matrix: Solid** 

Toxaphene

Analysis Batch: 688271

**Client Sample ID: Lab Control Sample** 

10/19/23 09:45 10/20/23 11:37

Prep Type: Total/NA

**Prep Batch: 688127** 

	Spike	LCS LCS			%Rec	
Analyte	Added	Result Qualifier	Unit D	%Rec	Limits	
Endrin	0.000500	0.000590	mg/L	118	65 - 135	
gamma-BHC (Lindane)	0.000500	0.000471	mg/L	94	56 - 120	
Heptachlor	0.000500	0.000512	mg/L	102	58 - 120	
Heptachlor epoxide	0.000500	0.000575	mg/L	115	65 - 125	
Methoxychlor	0.000500	0.000555	mg/L	111	50 - 150	

LCS L	_cs
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Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	51		20 - 120
DCB Decachlorobiphenyl	51		20 - 120
Tetrachloro-m-xylene	88		44 - 120
Tetrachloro-m-xylene	89		44 - 120

**Eurofins Buffalo** 

Project/Site: Waste

# Method: 8081B - Organochlorine Pesticides (GC)

<b>Lab Sam</b>	ple ID:	LCSD	480-688	8127/3-A
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Matrix: Solid

Analysis Batch: 688271

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 688127** 

	Spike	LCSD LCSD	)		%Rec		RPD	
Analyte	Added	Result Qualif	fier Unit	D %Rec	Limits	RPD	Limit	
Endrin	0.000500	0.000586	mg/L	117	65 - 135	1	24	
gamma-BHC (Lindane)	0.000500	0.000471	mg/L	94	56 - 120	0	24	
Heptachlor	0.000500	0.000511	mg/L	102	58 - 120	0	25	
Heptachlor epoxide	0.000500	0.000573	mg/L	115	65 - 125	0	23	
Methoxychlor	0.000500	0.000529	mg/L	106	50 - 150	5	26	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	48		20 - 120
DCB Decachlorobiphenyl	50		20 - 120
Tetrachloro-m-xylene	93		44 - 120
Tetrachloro-m-xylene	93		44 - 120

Lab Sample ID: LB 480-687902/1-C

**Matrix: Solid** 

Analysis Batch: 688271

**Client Sample ID: Method Blank** 

**Prep Type: TCLP Prep Batch: 688127** 

LB LB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chlordane (technical) 0.0020 0.000029 mg/L 10/19/23 09:45 10/20/23 14:09 < 0.000029 Endrin < 0.000014 0.00020 0.000014 mg/L 10/19/23 09:45 10/20/23 14:09 0.0000060 mg/L gamma-BHC (Lindane) <0.0000060 0.00020 10/19/23 09:45 10/20/23 14:09 Heptachlor < 0.0000085 0.00020 0.0000085 mg/L 10/19/23 09:45 10/20/23 14:09 10/19/23 09:45 10/20/23 14:09 Heptachlor epoxide < 0.0000053 0.00020 0.0000053 mg/L Methoxychlor < 0.000014 0.00020 0.000014 mg/L 10/19/23 09:45 10/20/23 14:09 Toxaphene < 0.00012 0.0020 0.00012 mg/L 10/19/23 09:45 10/20/23 14:09

LB LB

MB MB

Surrogate	%Recovery	Qualifier L	imits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		0 - 120	10/19/23 09:45	10/20/23 14:09	1
DCB Decachlorobiphenyl	80	20	0 - 120	10/19/23 09:45	10/20/23 14:09	1
Tetrachloro-m-xylene	97	4-	4 - 120	10/19/23 09:45	10/20/23 14:09	1
Tetrachloro-m-xylene	92	4	4 - 120	10/19/23 09:45	10/20/23 14:09	1

### Method: 8151A - TCLP Herbicides

Lab Sample ID: MB 480-688137/1-A

**Matrix: Solid** 

Analysis Batch: 688329

Client	Sample	ID: Met	hod	Blank

Prep Type: Total/NA Prep Batch: 688137

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.00010		0.00050	0.00010	mg/L		10/19/23 09:51	10/20/23 12:41	1
Silvex (2,4,5-TP)	<0.000090		0.00050	0.000090	mg/L		10/19/23 09:51	10/20/23 12:41	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	108		21 - 143				10/19/23 09:51	10/20/23 12:41	1
2,4-Dichlorophenylacetic acid	88		21 - 143				10/19/23 09:51	10/20/23 12:41	1

Project/Site: Waste

Method: 8151A - TCLP Herbicides (Continued)

Lab Sample ID: LCS 480-688137/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 688329** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 2,4-D 0.00200 0.00178 mg/L 89 36 - 150 Silvex (2,4,5-TP) 0.00200 0.00163 mg/L 81 49 - 150

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	92		21 - 143
2,4-Dichlorophenylacetic acid	83		21 - 143

Lab Sample ID: LCSD 480-688137/3-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 688329 **Prep Batch: 688137** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2,4-D	0.00200	0.00211		mg/L		106	36 - 150	17	50
Silvex (2,4,5-TP)	0.00200	0.00188		mg/L		94	49 - 150	14	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	94		21 - 143
2,4-Dichlorophenylacetic acid	94		21 - 143

Lab Sample ID: LB 480-687902/1-D **Client Sample ID: Method Blank** 

**Matrix: Solid** 

**Analysis Batch: 688329** 

	LD	LD							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.00040		0.0020	0.00040	mg/L		10/19/23 09:51	10/20/23 14:30	1
Silvex (2,4,5-TP)	< 0.00036		0.0020	0.00036	mg/L		10/19/23 09:51	10/20/23 14:30	1

LB LB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	41		21 - 143	10/19/23 09:51	10/20/23 14:30	1
2,4-Dichlorophenylacetic acid	51		21 - 143	10/19/23 09:51	10/20/23 14:30	1

Method: 8318A - The Determination of Carbamate in Soils and Water by HPLC

MB MB

Lab Sample ID: MB 410-434407/1-A Client Sample ID: Method Blank Prep Type: Total/NA **Matrix: Solid** 

Analysis Batch: 435696

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carhofuran	<10		50	10	ua/Ka		10/23/23 11:05	10/27/23 15:04	20

Surrogate	%Recovery Qualifier	Limits	Prepared Analyze	ed Dil Fac
4-Bromo-3 5-Dimethylphenyl-N-meth	32	10_131	10/23/23 11:05 10/27/23 1	15:04 20

ylcarbamate

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**Prep Type: Total/NA** 

**Prep Batch: 688137** 

**Prep Type: TCLP** 

**Prep Batch: 688137** 

Prep Batch: 434407

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Method: 8318A - The Determination of Carbamate in Soils and Water by HPLC (Continued)

Lab Sample ID: LCS 410-434407/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Prep Batch: 434407 Analysis Batch: 435696 Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D

Carbofuran 500 460 ug/Kg 92 73 - 115 LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromo-3,5-Dimethylphenyl-N-10 - 131 methylcarbamate

Lab Sample ID: LCSD 410-434407/3-A

Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 435696 **Prep Batch: 434407** 

LCSD LCSD Spike %Rec **RPD** Limits Added RPD **Analyte** Result Qualifier Unit D %Rec Limit Carbofuran 500 448 ug/Kg 90 73 - 115 3 50

LCSD LCSD Limits Surrogate %Recovery Qualifier 4-Bromo-3,5-Dimethylphenyl-N-32 10 - 131

methylcarbamate

Lab Sample ID: MB 410-439278/1-A Client Sample ID: Method Blank

**Matrix: Solid Analysis Batch: 440062** 

MB MB

**Analyte** Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Carbofuran <10 50 10 ug/Kg 11/03/23 10:45 11/03/23 20:14

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 28 10 - 131 11/03/23 10:45 11/03/23 20:14

4-Bromo-3,5-Dimethylphenyl-N-meth ylcarbamate

Lab Sample ID: LCS 410-439278/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 440062 Prep Batch: 439278** 

LCS LCS %Rec Spike Analyte Added Result Qualifier Limits Unit D %Rec Carbofuran 500 439 ug/Kg 88 73 - 115

LCS LCS

%Recovery Qualifier Limits Surrogate 10 - 131 4-Bromo-3,5-Dimethylphenyl-N-27

methylcarbamate

Lab Sample ID: LCSD 410-439278/3-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 440062** Prep Batch: 439278 Spike LCSD LCSD %Rec

**RPD** Limits Analyte Added Result Qualifier Unit %Rec **RPD** Limit Carbofuran 500 451 ug/Kg 90 73 - 115

**Eurofins Buffalo** 

Prep Type: Total/NA

Prep Batch: 439278

Dil Fac

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

#### Method: 8318A - The Determination of Carbamate in Soils and Water by HPLC (Continued)

Lab Sample ID: LCSD 410-439278/3-A

**Matrix: Solid** 

Analysis Batch: 440062

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

**Prep Batch: 439278** 

LCSD LCSD

MB MB

%Recovery Qualifier Limits Surrogate 4-Bromo-3,5-Dimethylphenyl-N-27 10 - 131

methylcarbamate

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-688083/2-A

**Matrix: Solid** 

**Analysis Batch: 689513** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

**Prep Batch: 688083** 

Result Qualifier RL MDL Unit Dil Fac Analyte Prepared Analyzed Arsenic <0.0056 0.015 0.0056 mg/L 10/19/23 09:40 10/28/23 02:28 10/19/23 09:40 10/28/23 02:28 Barium < 0.10 1.0 0.10 mg/L Cadmium <0.00050 0.0020 0.00050 mg/L 10/19/23 09:40 10/28/23 02:28 Chromium < 0.010 0.020 0.010 mg/L 10/19/23 09:40 10/28/23 02:28 0.0030 mg/L Lead <0.0030 0.020 10/19/23 09:40 10/28/23 02:28 Selenium 0.025 0.0087 mg/L 10/19/23 09:40 10/28/23 02:28 <0.0087 0.0017 mg/L 10/19/23 09:40 10/28/23 02:28 Silver < 0.0017 0.0060

Lab Sample ID: LCS 480-688083/3-A

**Matrix: Solid** 

Analysis Batch: 689513

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 688083** 

7 manyolo Batolii Good IG							op Batom Goode
-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	0.827		mg/L		83	80 - 120
Barium	1.00	0.796	J	mg/L		80	80 - 120
Cadmium	1.00	0.837		mg/L		84	80 - 120
Chromium	1.00	0.816		mg/L		82	80 - 120
Lead	1.00	0.874		mg/L		87	80 - 120
Selenium	1.00	0.822		mg/L		82	80 - 120
Silver	1 00	0.827		ma/l		83	80 - 120

Lab Sample ID: LB 480-687902/1-B

**Matrix: Solid** 

Analysis Batch: 689513

Client Sample ID: Method Blank

**Prep Type: TCLP** 

Prep Batch: 688083

LB LB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0056		0.015	0.0056	mg/L		10/19/23 09:40	10/28/23 02:24	1
Barium	<0.10		1.0	0.10	mg/L		10/19/23 09:40	10/28/23 02:24	1
Cadmium	< 0.00050		0.0020	0.00050	mg/L		10/19/23 09:40	10/28/23 02:24	1
Chromium	<0.010		0.020	0.010	mg/L		10/19/23 09:40	10/28/23 02:24	1
Lead	<0.0030		0.020	0.0030	mg/L		10/19/23 09:40	10/28/23 02:24	1
Selenium	<0.0087		0.025	0.0087	mg/L		10/19/23 09:40	10/28/23 02:24	1
Silver	<0.0017		0.0060	0.0017	mg/L		10/19/23 09:40	10/28/23 02:24	1

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11/7/2023

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-688156/2-A

Lab Sample ID: LCS 480-688156/3-A

**Matrix: Solid** 

Analysis Batch: 688286

**Analysis Batch: 688286** 

MB MB

Analyte

<0.000043 Mercury

Result Qualifier

RL 0.00020

Spike

Added

0.00680

**MDL** Unit 0.000043 mg/L

LCS LCS

0.00685

Result Qualifier

Unit

mg/L

Unit

Unit

Degrees F

Degrees F

Prepared

101

Analyzed Dil Fac 10/19/23 11:14 10/20/23 08:23

Prep Type: Total/NA

**Prep Batch: 688156** 

Prep Type: Total/NA **Prep Batch: 688156** 

**Prep Type: TCLP** 

**Prep Batch: 688156** 

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

**Prep Batch: 688976** 

Prep Type: Total/NA

**Prep Batch: 688976** 

Dil Fac

Analyzed

%Rec

Client Sample ID: Method Blank

D %Rec

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

100 97.5 - 102.

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

97.5 - 102. 5

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Limits 80 - 120

**Client Sample ID: Method Blank** 

Lab Sample ID: LB 480-687902/1-E

**Matrix: Solid** 

**Matrix: Solid** 

Analyte

Mercury

**Analysis Batch: 688286** 

LB LB

Analyte

Mercury <0.000043

Result Qualifier

0.00020

Spike

Added

81.0

Spike Added

81.0

**MDL** Unit 0.000043 mg/L

LCS LCS

LCS LCS

82.00

Result Qualifier

81.00

Result Qualifier

Prepared 10/19/23 11:14 10/20/23 08:21

D %Rec

%Rec

Prepared

101

Analyzed

Dil Fac

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-688170/1

**Matrix: Solid** 

Analyte

**Analysis Batch: 688170** 

Flashpoint

Lab Sample ID: LCS 480-688172/1

**Matrix: Solid** 

**Analysis Batch: 688172** 

Analyte Flashpoint

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-688976/1-A **Matrix: Solid** 

**Analysis Batch: 689170** 

Cyanide, Reactive Lab Sample ID: LCS 480-688976/2-A

**Matrix: Solid** 

**Analysis Batch: 689170** 

Analyte Cyanide, Reactive

Spike Added

<10.0

MB MB Result Qualifier

1000

RL

10.0

LCS LCS Result Qualifier 630.0

**RL** Unit

10.0 mg/Kg

Unit mg/Kg

%Rec

Limits

10/24/23 10:26 10/25/23 11:19

**Client Sample ID: Lab Control Sample** 

%Rec

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11/7/2023

# **QC Sample Results**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-688975/1-A **Client Sample ID: Method Blank** 

**Matrix: Solid** 

**Analysis Batch: 689112** 

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Sulfide, Reactive 10.0 10/24/23 10:26 10/25/23 15:00 <10.0 10.0 mg/Kg

Lab Sample ID: LCS 480-688975/2-A

**Matrix: Solid** 

Analysis Batch: 689112

Analyte

Spike Added 740

561.1

Result Qualifier Unit

LCS LCS

mg/Kg

D %Rec

10 - 100 76

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

Prep Type: Total/NA

Prep Type: Total/NA

**Prep Batch: 688975** 

Prep Type: Total/NA

**Prep Batch: 688975** 

Method: 9045D - pH

Lab Sample ID: LCS 480-688052/1

**Matrix: Solid** 

Sulfide, Reactive

Analysis Batch: 688052

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Spike Added 7.00

LCS LCS Result Qualifier Unit 7.1

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Client: Parsons Corporation

Job ID: 480-213803-1

Project/Site: Waste

GC/MS VOA

Leach Batch: 687907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	1311	
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	1311	
LB 480-687907/1-A	Method Blank	TCLP	Solid	1311	

**Analysis Batch: 688121** 

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 8260C	Prep Batch 687907
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	8260C	687907
LB 480-687907/1-A	Method Blank	TCLP	Solid	8260C	687907
MB 480-688121/9	Method Blank	Total/NA	Solid	8260C	
LCS 480-688121/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-688121/7	Lab Control Sample Dup	Total/NA	Solid	8260C	

**GC/MS Semi VOA** 

Leach Batch: 687902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	1311	
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	1311	
LB 480-687902/1-F	Method Blank	TCLP	Solid	1311	

**Prep Batch: 688195** 

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 3510C	Prep Batch 687902
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	3510C	687902
LB 480-687902/1-F	Method Blank	TCLP	Solid	3510C	687902
MB 480-688195/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-688195/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-688195/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

**Analysis Batch: 688289** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	8270D	688195
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	8270D	688195
LB 480-687902/1-F	Method Blank	TCLP	Solid	8270D	688195
MB 480-688195/1-A	Method Blank	Total/NA	Solid	8270D	688195
LCS 480-688195/2-A	Lab Control Sample	Total/NA	Solid	8270D	688195
LCSD 480-688195/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	688195

**GC Semi VOA** 

Leach Batch: 687902

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 1311	Prep Batch
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	1311	
LB 480-687902/1-C	Method Blank	TCLP	Solid	1311	
LB 480-687902/1-D	Method Blank	TCLP	Solid	1311	

**Prep Batch: 688127** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	3510C	687902
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	3510C	687902

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Client: Parsons Corporation Job ID: 480-213803-1 Project/Site: Waste

# GC Semi VOA (Continued)

#### Prep Batch: 688127 (Continued)

Lab Sample ID LB 480-687902/1-C	Client Sample ID  Method Blank	Prep Type TCLP	Matrix Solid	Method 3510C	Prep Batch 687902
MB 480-688127/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-688127/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-688127/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

#### **Prep Batch: 688137**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	8151A	687902
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	8151A	687902
LB 480-687902/1-D	Method Blank	TCLP	Solid	8151A	687902
MB 480-688137/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-688137/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-688137/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

#### **Analysis Batch: 688271**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	8081B	688127
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	8081B	688127
LB 480-687902/1-C	Method Blank	TCLP	Solid	8081B	688127
MB 480-688127/1-A	Method Blank	Total/NA	Solid	8081B	688127
LCS 480-688127/2-A	Lab Control Sample	Total/NA	Solid	8081B	688127
LCSD 480-688127/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	688127

#### **Analysis Batch: 688329**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	8151A	688137
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	8151A	688137
LB 480-687902/1-D	Method Blank	TCLP	Solid	8151A	688137
MB 480-688137/1-A	Method Blank	Total/NA	Solid	8151A	688137
LCS 480-688137/2-A	Lab Control Sample	Total/NA	Solid	8151A	688137
LCSD 480-688137/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	688137

#### **HPLC/IC**

#### **Prep Batch: 434407**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	ı
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	8318A_S_Prep	
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	8318A_S_Prep	
MB 410-434407/1-A	Method Blank	Total/NA	Solid	8318A_S_Prep	
LCS 410-434407/2-A	Lab Control Sample	Total/NA	Solid	8318A_S_Prep	
LCSD 410-434407/3-A	Lab Control Sample Dup	Total/NA	Solid	8318A_S_Prep	

#### Analysis Batch: 435696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	8318A	434407
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	8318A	434407
MB 410-434407/1-A	Method Blank	Total/NA	Solid	8318A	434407
LCS 410-434407/2-A	Lab Control Sample	Total/NA	Solid	8318A	434407
LCSD 410-434407/3-A	Lab Control Sample Dup	Total/NA	Solid	8318A	434407

Client: Parsons Corporation

Project/Site: Waste

Job ID: 480-213803-1

## HPLC/IC

#### **Prep Batch: 439278**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pre	p Batch
480-213803-2 - RE	SPENT CARBON-10162023	Total/NA	Solid	8318A_S_Prep	
MB 410-439278/1-A	Method Blank	Total/NA	Solid	8318A_S_Prep	
LCS 410-439278/2-A	Lab Control Sample	Total/NA	Solid	8318A_S_Prep	
LCSD 410-439278/3-A	Lab Control Sample Dup	Total/NA	Solid	8318A_S_Prep	

#### Analysis Batch: 440062

Lab Sample ID 480-213803-2 - RE	Client Sample ID SPENT CARBON-10162023	Prep Type Total/NA	Matrix Solid	Method 8318A	Prep Batch 439278
MB 410-439278/1-A	Method Blank	Total/NA	Solid	8318A	439278
LCS 410-439278/2-A	Lab Control Sample	Total/NA	Solid	8318A	439278
LCSD 410-439278/3-A	Lab Control Sample Dup	Total/NA	Solid	8318A	439278

#### Metals

#### Leach Batch: 687902

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 1311	Prep Batch
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	1311	
LB 480-687902/1-B	Method Blank	TCLP	Solid	1311	
LB 480-687902/1-E	Method Blank	TCLP	Solid	1311	

#### Prep Batch: 688083

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 3010A	Prep Batch 687902
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	3010A	687902
LB 480-687902/1-B	Method Blank	TCLP	Solid	3010A	687902
MB 480-688083/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-688083/3-A	Lab Control Sample	Total/NA	Solid	3010A	

#### **Prep Batch: 688156**

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 7470A	Prep Batch 687902
480-213803-1	SPENT CARBON-10162023	TCLP	Solid	7470A	687902
LB 480-687902/1-E	Method Blank	TCLP	Solid	7470A	687902
MB 480-688156/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-688156/3-A	Lab Control Sample	Total/NA	Solid	7470A	

#### **Analysis Batch: 688286**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	TCLP	Solid	7470A	688156
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	7470A	688156
LB 480-687902/1-E	Method Blank	TCLP	Solid	7470A	688156
MB 480-688156/2-A	Method Blank	Total/NA	Solid	7470A	688156
LCS 480-688156/3-A	Lab Control Sample	Total/NA	Solid	7470A	688156

#### **Analysis Batch: 689513**

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type TCLP	Matrix Solid	Method 6010C	Prep Batch 688083
480-213803-2	SPENT CARBON-10162023	TCLP	Solid	6010C	688083
LB 480-687902/1-B	Method Blank	TCLP	Solid	6010C	688083
MB 480-688083/2-A	Method Blank	Total/NA	Solid	6010C	688083

Eurofins Buffalo

Page 28 of 40 11/7/2023

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Client: Parsons Corporation

Job ID: 480-213803-1

Project/Site: Waste

Metals (Continued)

#### **Analysis Batch: 689513 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-688083/3-A	Lab Control Sample	Total/NA	Solid	6010C	688083

## **General Chemistry**

#### Analysis Batch: 688026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	Moisture	
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	Moisture	

#### **Analysis Batch: 688052**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	9045D	
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	9045D	
LCS 480-688052/1	Lab Control Sample	Total/NA	Solid	9045D	

#### **Analysis Batch: 688170**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	1010A	
LCS 480-688170/1	Lab Control Sample	Total/NA	Solid	1010A	

#### **Analysis Batch: 688172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	1010A	
LCS 480-688172/1	Lab Control Sample	Total/NA	Solid	1010A	

#### **Prep Batch: 688975**

Lab Sample ID 480-213803-1	Client Sample ID FILTER CAKE-10162023	Prep Type Total/NA	Matrix Solid	Method 7.3.4	Prep Batch
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	7.3.4	
MB 480-688975/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-688975/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

#### **Prep Batch: 688976**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	7.3.3	
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	7.3.3	
MB 480-688976/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-688976/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

#### **Analysis Batch: 689112**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	9034	688975
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	9034	688975
MB 480-688975/1-A	Method Blank	Total/NA	Solid	9034	688975
LCS 480-688975/2-A	Lab Control Sample	Total/NA	Solid	9034	688975

#### **Analysis Batch: 689170**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213803-1	FILTER CAKE-10162023	Total/NA	Solid	9012	688976
480-213803-2	SPENT CARBON-10162023	Total/NA	Solid	9012	688976
MB 480-688976/1-A	Method Blank	Total/NA	Solid	9012	688976

Eurofins Buffalo

11/7/2023

Page 29 of 40

2

3

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12

13

14

**Client: Parsons Corporation** Job ID: 480-213803-1

Project/Site: Waste

**General Chemistry (Continued)** 

**Analysis Batch: 689170 (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-688976/2-A	Lab Control Sample	Total/NA	Solid	9012	688976

Job ID: 480-213803-1

Client: Parsons Corporation Project/Site: Waste

Client Sample ID: FILTER CAKE-10162023

Lab Sample ID: 480-213803-1 Date Collected: 10/16/23 13:00 **Matrix: Solid** 

Date Received: 10/17/23 16:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			687907	SMP	EET BUF	10/18/23 09:41 - 10/19/23 08:58 <sup>1</sup>
TCLP	Analysis	8260C		10	688121	AXK	EET BUF	10/19/23 18:37
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 1
TCLP	Prep	3510C			688195	LSC	EET BUF	10/19/23 14:16
TCLP	Analysis	8270D		1	688289	JMM	EET BUF	10/20/23 17:30
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 1
TCLP	Prep	3510C			688127	JMP	EET BUF	10/19/23 09:45
TCLP	Analysis	8081B		1	688271	JLS	EET BUF	10/20/23 15:00
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 <sup>1</sup>
TCLP	Prep	8151A			688137	JMP	EET BUF	10/19/23 09:51
TCLP	Analysis	8151A		1	688329	MAN	EET BUF	10/20/23 15:07
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 1
TCLP	Prep	3010A			688083	MP	EET BUF	10/19/23 09:40
TCLP	Analysis	6010C		1	689513	LMH	EET BUF	10/28/23 03:06
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 1
TCLP	Prep	7470A			688156	NVK	EET BUF	10/19/23 11:14
TCLP	Analysis	7470A		1	688286	NVK	EET BUF	10/20/23 08:33
Total/NA	Analysis	1010A		1	688170	KM	EET BUF	10/19/23 11:23
Total/NA	Prep	7.3.3			688976	AM	EET BUF	10/24/23 10:26
Total/NA	Analysis	9012		1	689170	AM	EET BUF	10/25/23 11:26
Total/NA	Prep	7.3.4			688975	AM	EET BUF	10/24/23 10:26
Total/NA	Analysis	9034		1	689112	AM	EET BUF	10/25/23 15:00
Total/NA	Analysis	9045D		1	688052	KB	EET BUF	10/18/23 19:45
Total/NA	Analysis	Moisture		1	688026	JMM	EET BUF	10/18/23 15:57

Client Sample ID: FILTER CAKE-10162023

Lab Sample ID: 480-213803-1 Date Collected: 10/16/23 13:00 **Matrix: Solid** Date Received: 10/17/23 16:15 Percent Solids: 63.6

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8318A_S_Prep			434407	U9KU	ELLE	10/23/23 11:05
Total/NA	Analysis	8318A		20	435696	GM5C	ELLE	10/27/23 17:32

Client Sample ID: SPENT CARBON-10162023 Lab Sample ID: 480-213803-2

Date Collected: 10/16/23 13:05 **Matrix: Solid** Date Received: 10/17/23 16:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			687907	SMP	EET BUF	10/18/23 09:41 - 10/19/23 08:58 <sup>1</sup>
TCLP	Analysis	8260C		10	688121	AXK	EET BUF	10/19/23 18:59
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 1
TCLP	Prep	3510C			688195	LSC	EET BUF	10/19/23 14:16
TCLP	Analysis	8270D		1	688289	JMM	EET BUF	10/20/23 17:53

**Eurofins Buffalo** 

#### **Lab Chronicle**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

Client Sample ID: SPENT CARBON-10162023

Lab Sample ID: 480-213803-2 Date Collected: 10/16/23 13:05 **Matrix: Solid** 

Date Received: 10/17/23 16:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 <sup>1</sup>
TCLP	Prep	3510C			688127	JMP	EET BUF	10/19/23 09:45
TCLP	Analysis	8081B		1	688271	JLS	EET BUF	10/20/23 15:26
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 <sup>1</sup>
TCLP	Prep	8151A			688137	JMP	EET BUF	10/19/23 09:51
TCLP	Analysis	8151A		1	688329	MAN	EET BUF	10/20/23 15:25
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 <sup>1</sup>
TCLP	Prep	3010A			688083	MP	EET BUF	10/19/23 09:40
TCLP	Analysis	6010C		1	689513	LMH	EET BUF	10/28/23 03:10
TCLP	Leach	1311			687902	SMP	EET BUF	10/18/23 09:39 - 10/19/23 08:17 <sup>1</sup>
TCLP	Prep	7470A			688156	NVK	EET BUF	10/19/23 11:14
TCLP	Analysis	7470A		1	688286	NVK	EET BUF	10/20/23 08:34
Total/NA	Analysis	1010A		1	688172	KM	EET BUF	10/19/23 11:27
Total/NA	Prep	7.3.3			688976	AM	EET BUF	10/24/23 10:26
Total/NA	Analysis	9012		1	689170	AM	EET BUF	10/25/23 11:28
Total/NA	Prep	7.3.4			688975	AM	EET BUF	10/24/23 10:26
Total/NA	Analysis	9034		1	689112	AM	EET BUF	10/25/23 15:00
Total/NA	Analysis	9045D		1	688052	KB	EET BUF	10/18/23 19:45
Total/NA	Analysis	Moisture		1	688026	JMM	EET BUF	10/18/23 15:57

Client Sample ID: SPENT CARBON-10162023

Date Collecte	ed: 10/16/23	13:05				Matrix: Soli							
Date Receive	d: 10/17/23 <sup>2</sup>	16:15					Percent Se	olids: 47.					
_	Batch	Batch		Dilution	Batch		Prepared						
Prep Type	Туре	Method	Run	Factor	Number Analyst	Lab	or Analyzed						

Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8318A_S_Prep			434407	U9KU	ELLE	10/23/23 11:05
Total/NA	Analysis	8318A		20	435696	GM5C	ELLE	10/27/23 18:21
Total/NA	Prep	8318A_S_Prep	RE		439278	U9KU	ELLE	11/03/23 10:45
Total/NA	Analysis	8318A	RE	20	440062	GM5C	ELLE	11/03/23 23:30

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

#### **Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Lab Sample ID: 480-213803-2 olid 7.0

# **Accreditation/Certification Summary**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

#### **Laboratory: Eurofins Buffalo**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	<b>Expiration Date</b>	
New York	NELAP	10026	03-31-24	
The following analytes a	ure included in this report, but the laborator	y is not certified by the governing author	ity. This list may inclu	

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
7470A	7470A	Solid	Mercury	
8270D	3510C	Solid	Dinoseb	
9012	7.3.3	Solid	Cyanide, Reactive	
9034	7.3.4	Solid	Sulfide, Reactive	
9045D		Solid	Temperature	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

#### Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Dat
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-24
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
lowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP PA011		
New York	NELAP	10670	04-01-24

Page 33 of 40

# **Accreditation/Certification Summary**

Client: Parsons Corporation Job ID: 480-213803-1

Project/Site: Waste

## **Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

# **Method Summary**

Client: Parsons Corporation

Project/Site: Waste

Job ID: 480-213803-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8151A	TCLP Herbicides	SW846	EET BUF
8318A	The Determination of Carbamate in Soils and Water by HPLC	SW846	ELLE
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9045D	рН	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
3010A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF
8318A_S_Prep	Preparation, Carbamate (HPLC)	SW846	ELLE

#### **Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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# **Sample Summary**

Client: Parsons Corporation

Job ID: 480-213803-1

Project/Site. waste			

Lab Sample ID Client Sample ID Matrix Collected Received 480-213803-1 FILTER CAKE-10162023 10/16/23 13:00 10/17/23 16:15 Solid 480-213803-2 SPENT CARBON-10162023 Solid 10/16/23 13:05 10/17/23 16:15

Sampling Co P			Chain of Custody	ģ													
								Site Name:		Dublin Road Sire	ed Sire		Phase	-			
	PAKSONS		500 100		Locus EIM			Location of Site	ite:	Middleport, NY	L NY		Sampling Program	$\overline{}$	WASTE		Clabin
	Name	Jeffrey Poulsen	Sampler(s):	Jeff Poulsen								100					
Reporting Information Address	Address	40 LaRiviere Drive	* 04														Lab Job#
2	City, State, Zip	Buffalo, NY 14202	Analysis T.	Analysis Turnaround Time (TAT)	TAT):			Preservative	+								1
	Contact; email	jeffrey.poulsen@parsons.com		Consultant		a.	Parsons			(002	(81	de	s		-		
	Co. Name	Parsons		Laboratory Contact		Denise Hecklı (330)	Denise Heckler@eurofinset.com (330) 966-8477			.28) qəs	808) səp	esonib\C	esticides	(Arai	10C/74		
Billing Information	Address	301 Plainfield Road, Suite 350	Re	Report Tier Level				qı		ouib	ioits		d pa				
- 72	City, State, Zip	Syracuse, NY 13212	1	Full Report TAT		1	10 days	510\e		10C	ed b		inate				
4	Attn:	michelle.gugliuzza@parsons.com		FMC RM		1	Manada	tiso		1O+5	etar	OAS	plo				_
	Sample	Sample Identification	Sample Date	Sample Time	Sample	alone Manage	Sample	dwo	ield F	۸OC	inold		270D 2.LP c			S) Ist	
Location ID	Start Depth (ft) De	End Fleid Sample ID Depth (ft)	wwdpmm	1400					1	s	0	T	)T	-	+	+	_
Dubline Cake		FILTER CAKE-10162023	10/16/2023	13:00	Z.S	SOLID	2	e		_					+		+
Dublin Carbon		SOCIAL CADOCAL					z	9	z			×	×	×	×	×	-
		270701012000000000000000000000000000000	10/16/2023	13:06	NS.	Sound	2	9	z			×	×	×	×	×	
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A Keinfalsh	yarbed	Company	,			Received by	, Aq		, and a			-				-	- 1
Relinquished by	dby	Date/Time /4(7.2	13 1615	V	Cahan		10-17-33		Date/Time								Custody Seals Intact
		Date/Time				% Sec.			Company	ny							Custody Seals Intact
			· Jr	,		*	51:4		Date/Time								+
Preservatives: (Other; Specify):	er; Specify):	715	#	2			Donath City on State Control										-

Lab Sample Numbers



#### **Eurofins Buffalo**

10 Hazelwood Drive Amherst, NY 14228-2298

# **Chain of Custody Record**



🔆 eurofins

**Environment Testing** 

Phone: 716-691-2600 Fax: 716-691-7991					TI SA											
Client Information (Sub Contract Lab)	Sampler <sup>-</sup>			Lab PN Heck	и: ler, De	enise	e D			Car	ner Traci	king No	(5)		COC No 480-83315 1	
Client Contact Shipping/Receiving	Phone				se Hed		@et eur				te of Ong w York		Page Page 1 of 1			
Company: Eurofins Lancaster Laboratories Environm			_				s Require New Yor		ote)						Job# 480-213803-1	
Address 2425 New Holland Pike,	Due Date Requeste	ed:						Aı	nalysis	Reque	sted				Preservation Cod	es: M - Hexane
City	TAT Requested (da	ays):			3 18	1			,					-	A - HCL B - NaOH	N - None O - AsNaO2
Lancaster State, Zip	-														C - Zn Acetate D - Nitric Acid	P - Na2O4S Q - Na2SO3
PA, 17601 Phone:	PO#					٦									E - NaHSO4 F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
717-656-2300(Tel)	wo#				(0)	ofura								ě	H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
					s or	Carb									J - DI Water	V - MCAA W - pH 4-5
Project Name Waste	Project # 48014480				es or	MOD									K - EDTA L - EDA Other:	Y - Trizma Z - other (specify)
Site FMC - Middleport, NY	SSOW#				Sample (Yes or No)	Prep									Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type (w	atrix =water.	Field Filtered Sample (Yes or Perform MS/MSD (Yes or No)	8318A/8318A_S_Prep (MOD) Carbofuran									tal Number	structions/Note:
		><	Preservation (		XX		132	57 10		1		0.6	146			and the second
FILTER CAKE-10162023 (480-213803-1)	10/16/23	13:00 Eastern	S	Solid		×								E.	1	
SPENT CARBON-10162023 (480-213803-2)	10/16/23	13.05 Eastern	S	Solid		×									1	
														3		
Note Since laboratory accreditations are subject to change. Eurofins Environme does not currently maintain accreditation in the State of Ongin listed above for an status should be brought to Eurofins Environment Testing Northeast, LLC attents.	nalysis/tests/matrix be	ing analyzed, t	he samples must be s	shipped ba	ack to th	he Eur	rofins Env	ironment	Testing No	theast, LL	.C labora	tory or	other instr	ructions	will be provided. Any c	hanges to accreditation
Possible Hazard Identification					Sa		e Dispo Return 1						ples are	_	ined longer than 1	
Unconfirmed Deliverable Requested I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2		Sp			-	C Requir		osal B	y Lab		Ar	chive For	Months
Empty Kit Relinquished by		Date:			Time	:					Metho	d of Sh	ipment:			
Relinquished by	Date/Time	1 (0 (0	7 /20 Comp	pany A		Rec	eived by					D	ate/Time			Company
Relinquished by MWW W WO/N	Date/Time	11011.	Comp			Rec	ceived by					D	ate/Time	_		Сотрапу
Relinquished by	Date/Time		Comp	pany		Rec	Bived by			5		D	ate/Time	lip	/23 0935	Company
Custody Seals Intact.   Custody Seal No.						C	Ter Temp	eratore(s	°C a off	ner Roman	kş:		31	119	165 073)	LUM
ACTOS A NO						1 1	٠ .	U	, O	<u></u>	•	<u>,                                    </u>	<u> </u>			Ver: 06/08/2021

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Page 38 of 40 11/7/2023

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Client: Parsons Corporation

Job Number: 480-213803-1

Login Number: 213803 List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background True	
The cooler's custody seal, if present, is intact.	
The cooler or samples do not appear to have been compromised or tampered with.	
Samples were received on ice. True	
Cooler Temperature is acceptable. True	
Cooler Temperature is recorded. True	
COC is present. True	
COC is filled out in ink and legible. True	
COC is filled out with all pertinent information.	
Is the Field Sampler's name present on COC?	
There are no discrepancies between the sample IDs on the containers and True the COC.	
Samples are received within Holding Time (Excluding tests with immediate True HTs)	
Sample containers have legible labels. True	
Containers are not broken or leaking.	
Sample collection date/times are provided.	
Appropriate sample containers are used.	
Sample bottles are completely filled. True	
Sample Preservation Verified True	
There is sufficient vol. for all requested analyses, incl. any requested  True MS/MSDs	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in True diameter.	
If necessary, staff have been informed of any short hold time or quick TAT True needs	
Multiphasic samples are not present. True	
Samples do not require splitting or compositing.	
Sampling Company provided. True	parsons
Samples received within 48 hours of sampling.	
Samples requiring field filtration have been filtered in the field.  N/A	
Chlorine Residual checked. N/A	

**Eurofins Buffalo** 

## **Login Sample Receipt Checklist**

Client: Parsons Corporation Job Number: 480-213803-1

Login Number: 213803 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2 List Creation: 10/19/23 02:22 PM

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required( =6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required ( =6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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47-19-7 (10/86) - Text 12 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE • BUREAU OF HAZARDOUS WASTE

**OPERATIONS** 

50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

	FOR STATE USE ONLY						
SITE NO. APPLICATION NO. 32S30		DATE RECEIVED					
DEPARTMENT ACTION		DATE					
	Approved		Disapproved				



### APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

NAME OF PROJECT/FACILITY     MODERN LANDFILL, INC.		2. COUNTY NIAGA	·RA				3.	SITE NUM <b>32S30</b>	
4. NAME OF OWNER		5. ADDRESS	S (Street, City,				6.	TELEPHOI	NE NO.
RICHARD WASHUTA  6. NAME OF OPERATOR		4746 Mode 8. ADDRESS			•	Y 141		(716) 754-8226 9. TELEPHONE NO.	
6. NAME OF OPERATOR RICHARD WASHUTA  8. ADDRESS (Streen Streen St						NY 14		716) 754	
10. METHOD OF TREATMENT OR DISPOSAL				,	<u>, , , , , , , , , , , , , , , , , , , </u>		l .		
	SANITARY LA	ANDFILL - D	)90						
11. COMPANY GENERATING WASTE FMC Corporation					CILITY GENE ad, Ridge			eet, City, State <b>03</b>	, Zip Code)
13. REPRESENTATIVE OF WASTE GENERATOR Jeffrey Poulsen		ADDRESS OF RE ara Street, M			)5	-		. TELEPHON 6-432-76	
16. DESCRIPTION OF PROCESS PRODUCING WA		,	· · ·				I		
spent carbon and filter cake from wa		•							
17. EXPECTED ANNUAL WASTE PRODUCTION 20		VASTE HAULED IN	N Bulk Tank		Roll-Off Co	ntainor		her	
19. WASTE COMPOSITION 19	b. Physical State	Tullis	DUIK TATIK		Kull-Oll Cul	паше	Oli	19c. pH Rai	nge
19A. Average Percent Solids 90		Slurry S	Sludge 🗸		C TRATION (Dr	ontained (	Gas	LINII	to
19d. COMI	PONENTS			Upper	Lower		Typical	Wt.	T (Check One) % ppm
1) filter cake				50	100	100			
2) spent carbon				50	100	100			
3)									
4)									
20. IS AN ANALYSIS OF WASTE ATTACHED?  YES NO	21. WAS A TO	CLP TEST CONDU No If "yes",		E WASTE?	•		22. MAT Hazar	ERIAL IS:	Non-Hazardous
23. DETAIL ALL HAZARD AND NUISANCE PROBLE	1 * 1 * 1	,		sary safety,	handling, trea	tment and	l l		Ton Hazaraous
spent carbon from water treatment	analytical da	ata provided	- non haz	ardous					
filter cake/multimedia sand from wa	tor treatment	- analytical a	and contai	inad in a	innroval r	vrovido	d - non l	hazardou	c
iller cake/multimedia sand nom wa	iei iieaiiiieiii	- analytical a	and Conta	ineu in a	ippiovai p	Jovide	u - Holli	i iazai uou	5
24. WHERE WAS MATERIAL DISPOSED OF PREV	IOUSLY?								
25. NAME OF WASTE TRANSPORTER	26. ADDRESS (St	reet, City, State, Zi	ip Code)		27. NY	SDEC PE	RMIT No.	28. TELEP	HONE NO.
Modern Disposal Services 4746 Model City Road, Model City, NY 14107 9A-073					716-754-8226				
29. CERTIFICATION I hereby affirm under penalty of perjur knowledge and belief. False statement	nts made herein	are punishable	his form and as a Class	d attached A misden	statement	s and ex	Section 2	10.45 of the	est of my Penal Law.
a. SIGNATURE AND TITLE OF REPRESENTATIVE	OF WASTE GENE	RATOR					DATE		
Jeffrey Poulsen on behalf of FMC b. SIGNATURE AND TITLE OF REPRESENTATIVE	OF TDEATMENT O	ND DISDOSAL EAC	VTLII				DATE	2024	
D. SIGNATURE AND THE OF REPRESENTATIVE	OI IRLAIMENIO	IN DISPUSAL FAC	ALII I				DATE	-	

# MODERN LANDFILL, INC PO BOX 209 MODEL CITY, NY 14107



## **GENERATOR WASTE CHARACTERIZATION REPORT**

**INSTRUCTIONS**: Please complete all sections of this report as a fillable pdf or in blue or black ink. Return the completed report, the analytical data report (if required), and the Application for Disposal of an Industrial Waste Stream (47-19-7 form) to Modern. A separate form is required for each waste stream.

GENERATOR INFO	ORMATION:			
Generator Name: _	FMC Corporation			
Generating Facility	Address: 10619 Dubl	in Road, R	idgeway, 14103 N	ΙΥ
Technical Contact:	Jeff Poulsen	Phone:	716 432 7685	Email: jeffrey.poulsen@parsons.com
Alternate Contact:	Chris Reuther	Phone:	716 480 2945	Email: christopher.reuther@fmc.com
INVOICING INFO	RMATION:			Same as generator
Contracting Firm: F	Parsons			
Contact: Michelle	e Gugliuzza	Phone:	315 552 9693	Email: michelle.gugliuzza@parsons.cor
•	sting account with Moder 10 Plainfield Roard, s		racuse, NY 13212	Yes No
TRANSPORTER II	NFORMATION:			
Hauler Name: Mod	dern Disposal Service	es	NYSI	DEC Permit No: 9A-073
Contact: dispate	n	Phone:		Email:
If Modern is not ha	uling, is Modern Landfill o	on your Trans	sporter Permit?	Yes No
WASTE INFORMA	TION:			
Common name of v	vaste: Spent Carbon			
State waste code(s)	if applicable:			
Description of proce	ess generating this waste	: operation	n of water treatme	ent plant
One-time disposal o	or recurring?	One-time	Recur	ring
Is this waste hazard	dous under US EPA 40 CF	R 261 & 6 N	Y-CRR Part 371.1 (d)	? Yes No
Is this waste radioa	ctive under US EPA 40 C	FR 191.12?		Yes No

WASTE CHARACTERISTICS:
Is the waste <u>less than</u> 20% solids?* Yes No Does the waste contain free liquids?* Yes No Is the pH between 2 and 12.5? Yes No
Is the waste reactive (CN-/S <sup>2</sup> -?) Yes $\sqrt{}$ No Does the waste contain $\geq$ 50 ppm PCBs? Yes $\sqrt{}$ No
* If the answer to either of these questions is "yes", you must also complete a Waste Solidification Profile.
If the answer to chircl of these questions is yes, you must also complete a waste soliumeation frome.
Color(s): Odor: Volume Mild Strong
GENERATOR CERTIFICATION:
I. I certify that this profile and any attachment(s) accurately represent all components of the waste stream and
that the information contained herein is true and complete, to the best of my knowledge:  Yes No
II. I certify that the waste represented by this profile is not a listed hazardous waste, does not contain a listed hazardous waste, and does not exhibit any characteristics of a hazardous waste as defined by 40 CFR 261:
✓ Yes No
III. I understand that it is my responsibility as the Generator (or its authorized agent) to make this hazardous waste determination in accordance with 40 CFR 262.11. If at any time upon receipt by Modern the material
deviates from the components or characteristics certified herein, Modern reserves the right to reject such waste until the waste stream conforms to this profile, or to require completion of a new waste profile
appropriately characterizing the waste:
Yes No
Printed Name: Jeffrey Poulsen
Title: Project Manager
Parsons, on behalf of FMC Corp.
Signature: Jeffrey Poulsen Digitally signed by Jeffrey Poulsen Date: 2024.01.05 09:47:22 -05'00'
Date:

# MODERN LANDFILL, INC PO BOX 209 MODEL CITY, NY 14107



## **GENERATOR WASTE CHARACTERIZATION REPORT**

**INSTRUCTIONS**: Please complete all sections of this report as a fillable pdf or in blue or black ink. Return the completed report, the analytical data report (if required), and the Application for Disposal of an Industrial Waste Stream (47-19-7 form) to Modern. A separate form is required for each waste stream.

GENERATOR INFO	ORMATION:			
Generator Name: _	MC Corporation			
Generating Facility	Address: 10619 Dub	lin Road, R	idgeway, 14103 N	NY
Technical Contact:	Jeff Poulsen	Phone:	716 432 7685	Email: jeffrey.poulsen@parsons.com
Alternate Contact:	Chris Reuther	Phone:	716 480 2945	Email: christopher.reuther@fmc.com
INVOICING INFO	RMATION:			Same as generator
Contracting Firm: F	Parsons			
Contact: Michelle	e Gugliuzza	Phone:	315 552 9693	Email: michelle.gugliuzza@parsons.cor
•	sting account with Mode 10 Plainfield Roard, s		racuse, NY 13212	Yes No
TRANSPORTER II	NFORMATION:			
Hauler Name: Mod	dern Disposal Servic	es	NYSI	DEC Permit No: 9A-073
Contact: dispate	n	Phone:		Email:
If Modern is not ha	uling, is Modern Landfill (	on your Trans	sporter Permit?	Yes No
WASTE INFORMA	TION:			
Common name of v	vaste: Filter Cake			
State waste code(s)	if applicable:			
Description of proce	ess generating this waste	e: operation	n of water treatme	ent plant
One-time disposal o	or recurring?	One-time	Recui	rring
Is this waste hazard	dous under US EPA 40 CF	FR 261 & 6 N	Y-CRR Part 371.1 (d)	? Yes No
Is this waste radioa	ctive under US EPA 40 C	FR 191.12?		Yes No

WASTE CHARACTERISTICS:
Is the waste less than 20% solids?* Yes V No Does the waste contain free liquids?* Yes V No
Is the flashpoint at least 140°F?  Yes No Is the pH between 2 and 12.5?  Yes No
Is the waste reactive (CN <sup>-</sup> /S <sup>2-</sup> ?)  Yes  Yes  No  Does the waste contain ≥50 ppm PCBs?  Yes  No
* If the answer to either of these questions is "yes", you must also complete a Waste Solidification Profile.
Color(s): Odor: Volume Mild Strong
GENERATOR CERTIFICATION:
I. I certify that this profile and any attachment(s) accurately represent all components of the waste stream and
that the information contained herein is true and complete, to the best of my knowledge:
Yes No
II. I certify that the waste represented by this profile is not a listed hazardous waste, does not contain a listed
hazardous waste, and does not exhibit any characteristics of a hazardous waste as defined by 40 CFR 261:
Yes No
III. I understand that it is my responsibility as the Generator (or its authorized agent) to make this hazardous
waste determination in accordance with 40 CFR 262.11. If at any time upon receipt by Modern the material
deviates from the components or characteristics certified herein, Modern reserves the right to reject such
waste until the waste stream conforms to this profile, or to require completion of a new waste profile
appropriately characterizing the waste:
Yes No
Printed Name: Jeffrey Poulsen
Title: Project Manager
Parsons, on behalf of FMC Corp.
Signature: Jeffrey Poulsen Date: 2024.01.05 09:47:52 -05'00'
Date: 1/5/2024

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 9 700 Delaware Avenue, Buffalo, NY 14209 P: (716) 851-7220 | F: (716) 851-7226 www.dec.ny.gov

February 8, 2024

Nathan Duncan Landfill Operations Specialist Modern Landfill, Inc. P.O. Box 209 4746 Model City Road Model City, New York 14107

Dear Mr. Duncan:

Generator: FMC Corporation Address: 10619 Dublin Road

Ridgeway, New York 14103

Waste Description: Filter Cake and Carbon

Application #M24-3713

The Department has reviewed the above referenced application for Treatment or Disposal of an Industrial Waste Stream (Form 47-19-7). Based on the information provided, this waste is **approved for 20 tons for disposal and is acceptable for disposal at the Modern Landfill** in Model City, New York. This approval expires February 8, 2027.

In the event that significant changes in the information presented on the application occur, you shall immediately notify this Department in writing. Such changes shall include, but not be limited to, changes in tonnage, process, facility name or address, waste composition and/or hauler.

Should you have any questions, please contact this office at 716-851-7220.

Sincerely,

Matthew Slominski

Matthew Slominski Assistant Engineer

ec.



Peter Grasso, P.E., NYSDEC Beverly Lewinski, P.E., NYSDEC







Since 1964
A Full Service Solid Waste Disposal Company

www.moderncorporation.com

**Customer # 51693** 

PARSONS ENGINEERING OF NY 301 PLAINFIELD RD SYRACUSE, NY 13212-4568

Modern Company	Invoice	#	Total
Modern Disposal Services, Inc.	10516309		
		Grand Total	

Overfilled dumpster's will be billed for extra yardage. Please unsure lids are completely closed on pickup days. Please call your account manager for right sizing options. Sanitary landfill costs, recycling material processing cost and other charges are components of the services Modern provides. It may have been necessary to adjust the unit price of collections, disposal and recycling processing services provided to you. Modern is honored to be your waste service provider.

Modern now accepts credit card payments via our website: www.moderncorporation.com



Please mail remittance to the address listed above with a check payable to the appropriate company listed below.

#### **Customer # 51693 PARSONS ENGINEERING OF NY**

			CARD NUMBER	CODE ON BACK	EXP. DATE
PLEASE	CHECK CAI	RD USED			
VISA	MosterCod	DISCOVER	SIGNATURE		AMOUNT
			EMAIL ADDRESS		

Modern Company	Invoice	e #	Total	
Modern Disposal Services, Inc.	10516309			
If not paying the full amount, Please indicate the amount of the	check to be applied to each invoice:	Grand Total		



## **MODERN CORPORATION**

Since 1964 A Full Service Solid Waste Disposal Company

PARSONS ENGINEERING OF NY

9950 TELEGRAPH RD

MIDDLEPORT, NY 14105



Modern Disposal Services, Inc. 4746 Model City Rd. PO Box 209 Model City, NY 14107 (716) 754-8226 
 Invoice Number:
 10516309

 Date:
 03/01/24

 Terms:
 Net 10 Days

Service Address: Service Number: 051693 - 0003

Customer Number: 51693

Bill To: PARSONS ENGINEERING OF NY 301 PLAINFIELD RD SYRACUSE, NY 13212-4568

Date of Service:	Description:	Amount:
02/19/24	Transaction # 0004032027 3.00 - DC Industrial Waste - General - \$0.00 PO# . 1.06 - DC Industrial Waste - General - Over Maximum - \$50.00 PO# . 1.00 - Haul Charge Rolloff 20CY Trash - \$525.00	
age 1 of 2		





# APPENDIX F DEBRIS DISPOSAL RECORDS



## MODERN CORPORATION

Since 1964 A Full Service Solid Waste Disposal Company



Invoice Number: 9913867

Date: 12/01/23

Terms: Net 10 Days

Modern Disposal Services, Inc. 4746 Model City Rd. PO Box 209 Model City, NY 14107 (716) 754-8226

> Bill To: PARSONS ENGINEERING OF

NY 301 PLAINFIELD RD SYRACUSE, NY 13212 Service Address:

PARSONS ENGINEERING OF NY

10619 DUBLIN RD MEDINA, NY 14103 Service Number: 051693 - 0002

Customer Number: 51693

Date of Service:	Description:	Amount:
11/07/2023	WO# 0003980838	
	3.00 - DC Construction & Debris - \$0.00	
	0.03 - DC Construction & Debris - Over Maximum -	
	1.00 - Haul Charge Rolloff 30CY Trash - \$	
11/21/23 - 12/01/23	11 - 30CY C&D Roll Off Service - 11 days of no activity - \$	
	A CONTRACTOR OF THE PROPERTY OF	
	453515.02	
	0	
	ζ,	
	3	

Overfilled dumpster's will be billed for extra yardage. Please unsure lids are completely closed on pickup days. Please call your account manager for right sizing options. Sanitary landfill costs, recycling material processing cost and other charges are components of the services Modern provides. It may have been necessary to adjust the unit price of collections, disposal and recycling processing services provided to you. Modern is honored to be your waste service provider.

Sales Tax: Invoice Total:





## MODERN CORPORATION

Since 1964 A Full Service Solid Waste Disposal Company



Invoice Number: 10155913

Date: 01/01/24 Terms: Net 10 Days

Modern Disposal Services, Inc. 4746 Model City Rd. PO Box 209 Model City, NY 14107 (716) 754-8226

> Bill To: PARSONS ENGINEERING OF NY 301 PLAINFIELD RD SYRACUSE, NY 13212

Service Address: PARSONS ENGINEERING OF NY

10619 DUBLIN RD MEDINA, NY 14103 Service Number: 051693 - 0002 Customer Number: 51693

Date of Service: Description: Amount: 21 - 30CY C&D Roll Off Service - 21 days of no activity - \$ 12/02/23 - 12/22/23 12/26/2023 WO# 0004002290 3.00 - DC Construction & Debris - \$ 0.45 - DC Construction & Debris - Over Maximum - \$ 1.00 - Haul Charge Rolloff 30CY Trash - \$-453515,02

Overfilled dumpster's will be billed for extra yardage. Please unsure lids are completely closed on pickup days. Please call your account manager for right sizing options. Sanitary landfill costs, recycling material processing cost and other charges are components of the services Modern provides. It may have been necessary to adjust the unit price of collections, disposal and recycling processing services provided to you. Modern is honored to be your waste service provider.

Sales Tax: Invoice Total:

