SIXTH FIVE-YEAR REVIEW REPORT FOR WHITE FARM EQUIPMENT CO DUMP SUPERFUND SITE FLOYD COUNTY, IOWA



Prepared by

U.S. Environmental Protection Agency Region 7 Lenexa, Kansas

Table of Contents

LIST OF ABBREVIATIONS & ACRONYMS	ii
I. INTRODUCTION	1
Site Background	1
FIVE-YEAR REVIEW SUMMARY FORM	2
II. RESPONSE ACTION SUMMARY	3
Basis for Taking Action	3
Response Actions	3
Status of Implementation	4
IC Summary Table	5
Systems Operations/Operation & Maintenance	6
III. PROGRESS SINCE THE LAST REVIEW	6
IV. FIVE-YEAR REVIEW PROCESS	
Community Notification, Involvement & Site Interviews	6
Ground water Monitoring	
Private Water Wells	
Interview	
Data Review	
Site Inspection	
V. TECHNICAL ASSESSMENT	
QUESTION A: Is the remedy functioning as intended by the decision documents?	
QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels and RAOs used at	
of the remedy selection still valid?	11
QUESTION C: Has any other information come to light that could call into question the	
protectiveness of the remedy?	
VI. ISSUES/ RECOMMENDATIONS/ OTHER FINDINGS	
Other Findings	
VII. PROTECTIVENESS STATEMENT	
VIII. NEXT REVIEW	15
APPENDIX A— REFERENCE LIST	
APPENDIX B— SITE INSPECTION FORM	
APPENDIX C— PHOTO LOG	
APPENDIX D— ANALYTICAL DATA	
APPENDIX E— INTERVIEW RECORD	
APPENDIX F— FIGURES	

LIST OF ABBREVIATIONS & ACRONYMS

COCs Contaminants of Concern

EPA U.S. Environmental Protection Agency
ESD Explanation of Significant Differences

ESV Ecological Screening Value

FYR Five-Year Review ICs Institutional Controls

IDNR Iowa Department of Natural Resources

MCL Maximum Contaminant Level
O&M Operation and Maintenance
RAO Remedial Action Objectives

ROD Record of Decision

UU/UE Unlimited use and unrestricted exposure

I. INTRODUCTION

The purpose of a Five-Year Review is to evaluate the implementation and performance of a remedy to determine whether that remedy is and will continue to be protective of human health and the environment. The methods, findings and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The U.S. Environmental Protection Agency is preparing this FYR pursuant to the Comprehensive Environmental Response, Compensation and Liability Act Section 121, consistent with the National Contingency Plan (40 CFR Section 300.430(f)(4)(ii)) and considering EPA policy.

This is the sixth FYR for the White Farm Equipment Co. Dump Superfund site. The triggering action for this statutory review is the completion date of the previous FYR. The FYR has been prepared because hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The site consists of one operable unit (OU) that will be addressed in this FYR.

The White Farm Equipment Co. Dump Superfund site FYR was led by Wesley March, EPA. Participants included Randy Brown, Amelia Holcomb, Alicia Dunton, and Venessa Madden, EPA; and Shelly Nellesen, Iowa Department of Natural Resources (IDNR). The review began on March 7, 2023.

Site Background

The site is located along the northern edge of Charles City in Floyd County, Iowa. The site occupies approximately 20 acres at the southeast corner of Kellogg Avenue and Rotary Park Road. It is the location of a former Oxbow Lake formed by a cutoff meander of the Cedar River. Remnants of the Oxbow Lake still exist northwest and south of the site. The site is covered by a vegetated soil cap and is sloped to provide runoff. Current land use of the property is a hay field. The site drains to the wetlands northwest and south of the site and ultimately the Cedar River. The Cedar River is approximately 2,200 feet west-southwest of the site. Site maps showing the limits of the cap and locations of monitoring wells are provided in attached figures.

An alluvial unconfined aquifer exists directly beneath the landfill area. A confined Cedar Valley aquifer, which is used as a source of potable water by Charles City, is located below the unconfined aquifer. The top of the bedrock of the Cedar Valley formation aquifer has been encountered at 135 and 142 feet at the site. A clay till layer exists between the two aquifer systems, and no evidence of a hydraulic connection between the systems has been found. The Charles City municipal wells, which are located 700 feet east of the site, draw drinking water from the deeper confined aquifer for Charles City residents. The hydraulic gradient of the alluvial unconfined aquifer is west-southwest to the Cedar River, away from the Charles City municipal wells.

White Farm Equipment Company operated the disposal site on this property, which it leased from H. E. Construction Company. In 1971, White Farm Equipment Company began disposing of foundry

sand, bag house dust, and other industrial wastes at the site. Disposal activities ended in 1985 with an estimated 650,000 cubic yards of wastes disposed on the site.

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION						
Site Name: White Fa	Site Name: White Farm Equipment Co. Dump					
EPA ID: IAD065210734	ŀ					
Region: 7	State: IA		City/County: Charles City/Floyd County			
SITE STATUS						
National Priorities List S	Status: Del	leted				
Multiple OUs?		Has the	site achieved construction completion?			
No	Yes					
REVIEW STATUS						
Lead agency: EPA [If "Other Federal Agency", enter Agency name]:						
Author name (Federal or State Project Manager): Wesley March						
Author affiliation: EPA						
Review period: 3/7/2023 - 11/10/2023						
Date of site inspection: 8/7/2023						
Type of review: Statutory						
Review number: 6						

Triggering action date: 2/28/2018

Due date (five years after triggering action date): 2/28/2024

II. RESPONSE ACTION SUMMARY

Basis for Taking Action

The landfill materials at the site were found to contain elevated levels of metals and low levels of some organic contaminants. The contaminants of concern at the site identified in the risk assessment included benzene in the ground water and lead in the soil and landfill material. The risk assessment identified ingestion of ground water and direct contact with landfill material as exposure pathways which posed unacceptable risks at the site.

Response Actions

In 1984, the IDNR required the White Farm Equipment Company to install monitoring wells for assessing whether environmental impacts from disposal activities had occurred. In 1985, the EPA performed a Preliminary Assessment of the site. The EPA found wastes in contact with ground water at a depth of five to ten feet below ground surface. The site was added to the National Priorities List in 1990.

The remedial investigation, feasibility study, and risk assessment were prepared from 1989 to 1990 to identify the nature and extent of contamination at the site. A Record of Decision was signed on September 28, 1990. The remedy included upgrading the landfill, installation of additional ground water monitoring wells, extraction and treatment of ground water, and long-term maintenance and monitoring. Additional ground water sampling, conducted as part of the remedial design, indicated there was no ground water contamination above the ground water performance criteria at the point of compliance. Therefore, ground water treatment and extraction were not implemented. An Explanation of Significant Differences was signed in 1992 which modified the type of cap, revised the cap construction time frame, and clarified the ground water point of compliance.

Remedy components of the 1990 ROD, as modified by the 1992 ESD, included the following:

- Implementation of institutional controls, including perimeter fencing and a restrictive covenant preventing well installation and restricting property use;
- Regrading the landfill to reduce runoff and erosion;
- Capping the landfill in accordance with the State of Iowa solid waste landfill closure requirements;
- · Long-term ground water monitoring; and
- Performing operation and maintenance of the fencing and landfill cover.

Remedial Action Objectives included the following:

- Prevent contaminant transport off site via surface water runoff;
- Reduce human exposure to landfill contaminants via direct contact and incidental ingestion of landfill materials;

- Limit infiltration and leaching of contaminants from the landfill material into ground water; and
- Restore contaminated ground water at and beyond the edge of the area where waste has been placed at the site.

Table 1: Cleanup Levels Selected

Media	Contaminant	Cleanup Level
	Benzene	1 ug/L
Ground water	Lead	15 ug/L *
	Cadmium	5 ug/L
	Chromium	100 ug/L

^{*}Action level for lead changed from 50 micrograms per liter, or $\mu g/L$, to 15 $\mu g/L$ since the 1990 ROD.

Status of Implementation

In a Consent Decree in 1991, Allied Products Corporation agreed to perform the remedial design and construct the remedial action. The remedial design and construction of the remedial action were conducted in accordance with the ROD as modified by the ESD. The remedial design was approved by the EPA in March 1994.

Remedial action construction activities consisted of installing the compacted cap, constructing ditches and a sedimentation basin, vegetating the cap, installing the perimeter fencing and instituting deed restrictions. A restrictive covenant for the property was recorded and filed on October 5, 1992 in Floyd County. The restrictive covenant was replaced by an environmental covenant on October 16, 2009.

The environmental covenant currently imposes the following activity and use limitations for the property:

- The construction, installation, maintenance, and use of any wells on the property for the purpose of extracting water for human drinking or for irrigation of food or feed crops shall be prohibited.
- The soil cap located on the property shall be maintained in good repair to prevent direct contact with the landfill materials, to reduce infiltration and leaching of contaminants and to minimize runoff transport of contaminants.
- The soil cap shall not be excavated or disturbed except for minor excavations necessary to install, maintain, or repair fences unless approved in advance in writing by the EPA or its assigns.
- The fence located on the property shall be maintained in good condition and repair. The hazardous chemical warning signs shall continuously be displayed in a conspicuous place on said fence, and such signs shall be maintained in legible condition.

These restrictions run with the land and are binding to all owners. The remedial action was constructed from July 1994 to June 1995. Construction completion was achieved when the Site Closeout Report was issued on September 8, 1995. A copy of the environmental covenant is included as an appendix.

IC Summary Table

Table 2: Summary of Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date
Ground water	Yes	Yes	Entire site	Restrict construction, installation, maintenance and use of any wells on the property for drinking water or irrigation of food or feed crops.	Environmental Covenant, 10/16/2009
Landfill cover	Yes	Yes	Entire site	Prevent direct contact with the landfill materials, reduce infiltration, and minimize run off transport.	Environmental Covenant, 10/16/2009
Landfill cover	Yes	Yes	Entire site	Prevent excavation or disturbance of the soil cap.	Environmental Covenant, 10/16/2009
Fence	Yes	Yes	Entire site	Maintain perimeter fencing and chemical warning signs	Environmental Covenant, 10/16/2009

Systems Operations/Operation & Maintenance

O&M activities at the site, since construction completion, were performed in accordance with the O&M plan for the site in January 1994. Post-closure site activities were conducted by the responsible party since the completion of the remedial action construction and included the inspection of the following items: final cover, ground water monitoring wells, drainage facilities, storm water retention areas, access road, perimeter fencing, signs, and gates.

Under the O&M Plan, ground water monitoring is to be performed concurrently with the FYR process. Shortly after the October 2000 post-closure site inspection, Allied Products Corporation filed for bankruptcy. The site became fund-lead with the EPA and IDNR taking over responsibility for maintenance of the site. The EPA and IDNR agreed to use a 10-year sampling frequency due to the limited detections from previous sampling events; as a result, sampling was not performed for the 2014 FYR. The required sampling was conducted in support of this FYR.

III. PROGRESS SINCE THE LAST REVIEW

This section includes the protectiveness determinations and statements from the most recent FYR as well as the recommendations from the most recent FYR and the current status of those recommendations.

Table 3: Protectiveness Determinations/Statements from the 2018 FYR

OU#	Protectiveness Determination	Protectiveness Statement
1	Protective	The remedy at the site is protective of human health and the environment.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews

A public notice was made available by a newspaper posting in the Charles City Press on March 10, 2023, stating that a FYR was being conducted and inviting the public to submit any comments to the EPA. The site information repository is available at:

https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0700181.Direct Push Sampling

Sampling using Direct Push Technology (DPT) has typically been conducted each alternating FYR. The last DPT event took place during the 2018 FYR. Therefore, DPT was not conducted as a part of this review. It is recommended that this sampling take place during the next (2028) review.

Ground water Monitoring

Ground water samples were collected in July and August 2023 (see sampling location map in Appendix A) from three of the existing monitoring wells (WFE-5A, WFE-5B and WFE-6B) and the two newly replaced monitoring wells (WFE 7AR and WFE 7BR).

These ground water samples were analyzed for the presence of total and dissolved metals including cadmium, chromium, and lead. The samples were also analyzed for volatile organic compounds including benzene.

Table 5 presents the results of the ground water samples collected for the first, second, third, fifth, and current FYRs as well as the ground water cleanup levels. As seen in previous ground water sampling events from the ground water monitoring well network, all contaminant of concern (COC) concentrations remain below Maximum Contaminant Levels (MCL), for those wells sampled for both total and dissolved phases. As presented in Appendix E, the results indicate that site COC concentrations in the dissolved phase remain below ground water cleanup levels.

Table 5: Ground water Sample Data 1999 to 2023

Analyte (μg/L)		WFE-5A	WFE-5B	WFE-6A	WFE-6B	WFE-7A	WFE- 7AR	WFE- 7B	WFE- 7BR	Performance Standard (µg/L)
Benzene	1999	1.0 U	NS	1.0 U	NS	1.0				
	2004	1.0 U	1.0 U	1.0 U	NS	NS	NS	NS	NS	
	2008	0.5 U	NS	NS	0.5 U	0.5 U	NS	0.5 U	NS	
	2018	0.5 U	5.0 U	NS	5.0 U	NS	NS	NS	NS	
	2023	0.5 U	0.5 U	х	0.5 U	х	0.5 U	х	0.5 U	
Cadmium	1999	0.44 U	NS	0.44 U	NS	5.0				
	2004	3.0 U	3.0 U	3.0 U	NS	NS	N\$	N\$	NS	
	2008	1.00 UJ	NS	NS	1.0 UJ	1.0 UJ	NS	3.1	NS	
	2018	5.0 U	5.0 U	NS	5.0 U	NS	N\$	NS	NS	
	2023	1.0 U	1.0 U	Х	1.0 U	Х	1.0 U	х	1.0 U	
Chromium	1999	0.88 Bu	0.97 Bu	0.88 Bu	0.96 Bu	0.88 Bu	NS	1.1 Bu	NS	100.0
	2004	15.0 U	15.0 U	15.0 U	NS	NS	NS	NS	NS	
	2008	2.0 U	NS	NS	2.0 U	2.04	NS	2.04	NS	
	2018	10.0 U	10.0	NS	10.0 U	NS	N\$	N\$	NS	
	2023	2.0 U	2.0 U	х	2.0 U	х	2.0 U	х	2.0 U	
Lead	1999	1.9 U	N\$	1.9 U	NS	50.0				
	2004	50.0 U	50.0 U	50.0 U	NS	NS	NS	NS	NS	
	2008	1.0 U	NS	NS	1.0 U	1.12	N\$	1.12	N\$	
	2018	10.0 U	10.0 U	NS	10.0 U	NS	NS	NS	NS	
	2023	1.0 U	1.0 U	Х	1.0 U	х	1.0 U	х	1.0 U	

Notes:

The groundwater performance standard for benzene was set in the ROD. The groundwater performance standards for cadmium, chromium, and lead were set in the 1991 Consent Decree.

The Treatment Technique (TT) Federal Action Level, for lead was changed to 15 micrograms per liter.

1999 samples were collected by the responsible party's contractor on June 22 and 23, 1999.

2004 samples were collected by EPA's contractor on March 30 and 31, 2004.

2008 samples were collected by US Army Corps of Engineers on December 4 and 5, 2008.

2018 samples were collected by EPA on May 14 and 15, 2018. In 2018 sampling event, well WFE-6A was destroyed and WFE-7A and WFE 7-B were surrounded by deep wetlands and could not be sampled.

2023 samples were collected by EPA's contractor on June 27 and 28, 2023. Wells WFE-7A and WFE-7B were abandoned and replaced with WFE-7AR and WFE-7BR, respectively.

NS - No samples were collected.

Bu - The result is estimated. The analyte is between the Instrument Detection Limit and the Contract Required Quantitation Limit. The analyte was considered non-detected during data validation on the basis of blank detections.

- U Not detected above reporting limit listed.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- X Monitoring well no longer available for sampling.

Private Water Wells

Based on the review of the IDNR Private Well Tracking System and the University of Iowa GeoSam Database, the closest active private water well is over 4,100 feet northwest of the site. Based on the review of the database, it is used for household purposes. Well records indicate that the well is screened in the lower Cedar Valley Formation aquifer below 145 feet. The closest private water well, also drilled and screened in the lower Cedar Valley Formation aquifer, is on an adjacent property to the east and would be considered side and upgradient of the site based on ground water flow of the upper aquifer.

Site ground water monitoring wells were placed in the upper unconfined aquifer with a maximum drilling depth of 62 feet. Landfill materials were identified from the surface of the site to depths ranging from 15 to 24 feet. During the Remedial Investigation (RI), the contaminant concentrations were not detected in native soil samples from approximately three feet below the landfill materials. Well records will continue to be reviewed during every FYR period.

Interview

During the FYR process, an interview was conducted to document any perceived problems or successes with the remedy that has been implemented to date. The results of these interviews are summarized below.

Shelly Nellesen is the Iowa Department of Natural Resources project manager and responded to the EPA Region 7 Interview form. There were no known issues or complaints at the time of this review. The IDNR is regularly updated by Region 7 and is aware that contamination remains in place. Future discussion will take place regarding the IDNR assuming control of the site.

Data Review

Contaminant detections were consistent with the previous Five-Year Reviews. All concentrations remain below the Remedial Action Objectives (RAOs) selected in the remedy.

Site Inspection

The inspection of the site was conducted on August 7, 2023. In attendance were Wes March, EPA. The purpose of the inspection was to assess the protectiveness of the remedy.

The site inspection included a visual inspection of the final cover, the ground water monitoring wells, the drainage channels and storm water retention areas, the access road, the perimeter fencing, gates, and signs. Photos from the site inspection are included with the site inspection checklist as an appendix.

The cover was inspected by walking and driving the site perimeter and assessing the condition and coverage of vegetation as well as identifying any small erosion features along the slopes. The cover appeared to be in good condition with some signs of erosion. The perimeter fence and gates were in good condition.

"No Trespassing" signs were present and legible. The property owner harvests hay from the property and intends to continue this use.

As noted in the 2018 FYR, two of the monitoring wells located along Kellogg Road, west of the site, were damaged. Monitoring well WFE-6A has been destroyed from above the ground surface. Monitoring well WFE-5B was missing the well casing cover. The monitoring wells located south of the site, WFE-7A and 7B, were not observable as they were removed and relocated. The parcel that these wells reside in is owned by Charles City, Iowa.

V.TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Question A Summary

As detailed below, the remedy is functioning as intended by the decision documents. The landfill cap provides an engineering control, and the environmental covenant provides an institutional control. Concentrations of site COCs in ground water were not detected above their respective MCL values (ClearPath Consultants, 2023).

Remedial Action Performance

The ROD, as modified by the ESD, included capping and grading of the landfill material to reduce runoff, erosion, and minimize infiltration. Operation and maintenance of the landfill cover and fencing is conducted periodically. In 2023, ClearPath Consultants conducted a site inspection of the landfill cap. No erosional features were observed, the site was completely vegetated, and no bare soil areas were observed (ClearPath Consultants, 2023). An environmental covenant is in place to prohibit excavation or disturbance of the cap, except for minor necessary excavations (Floyd County, 2009). Thus, exposures to landfill materials in soil by human receptors is considered an incomplete pathway via ingestion, dermal contact and inhalation (EPA 1990, 2014, 2019).

The remedy calls for ground water monitoring and controls to prohibit construction, installation, maintenance, and use of wells on the property as a drinking water source or for irrigation of food or feed crops (EPA 1990, 2014, 2019). Existing monitoring wells WFE-7A and WFE- 7B were abandoned and replaced with monitoring wells WFE-7-AR and WFE-7-BR. WFE-6A could not be located and is assumed to be destroyed (ClearPath Consultants, 2023). A review of previous reports indicates the damage occurred shortly after 2004 and the well has remained inoperable since that time. The absence of WFE-6A sample data has not affected the protectiveness determinations of previous Five-Year Reviews. As has been seen in previous ground water sampling events from the existing ground water monitoring well network, all total and dissolved COC concentrations have been below cleanup levels (ClearPath Consultants, 2023). Based on ground water sampling data conducted in June 2023, there are no detections of ground water COCs above their respective MCL values (ClearPath Consultants, 2023). The environmental covenant prevents complete exposure pathways to site ground water via ingestion, dermal contact, or inhalation (Floyd County, 2009).

Based on this review, it appears the remedy is functioning as intended by the ROD and ESD. The cap and ICs appear to continue to achieve the RAOs.

System Operations/O&M

During 2023, monitoring wells WFE-7A and WFE-7B were abandoned and replaced by monitoring wells WFE-7AR and WFE-7BR, respectively. These new wells are located close to the former monitoring wells

and will be monitoring the same portion of the aquifer. WFE-6A could not be located and is assumed to be destroyed (ClearPath Consultants, 2023). Remaining monitoring wells were reported to be in good condition and suitable for sampling (ClearPath Consultants, 2023).

In 2023, ClearPath Consultants conducted a site inspection of the landfill cap. No erosional features were observed, the site was completely vegetated, and no bare soil areas were observed (ClearPath Consultants, 2023).

Implementation of Institutional Controls (ICs) and Other Measures

The ROD required ICs as part of the selected remedy (EPA, 1990). The ICs listed in the ROD included deed restrictions on well installations and property use. A restrictive covenant was recorded and filed in 1992 with Floyd County. In 2009, the restrictive covenant was replaced with an environmental covenant (Floyd County, 2009).

The environmental covenant currently imposes the following activity and use limitations for the property:

- The construction, installation, maintenance, and use of any wells on the property for the purpose of extracting water for human drinking or for irrigation of food or feed crops shall be prohibited.
- The soil cap located on the property shall be maintained in good repair to prevent direct contact with the landfill materials, reduce infiltration and leaching of contaminants, and minimize runoff transport of contaminants.
- The soil cap shall not be excavated or disturbed except for minor excavations necessary to install, to maintain or to repair fences unless approved in advance in writing by the EPA or its assigns.
- The fence located on the property shall be maintained in good condition and repair. The hazardous chemical warning signs shall continuously be displayed in a conspicuous place on said fence, and such signs shall be maintained in legible condition.

These restrictions run with the land and are binding to all owners.

The IC above remains in place and maintains the remedial action objectives as described above.

Expected Progress Towards Meeting RAOs

Based on this review, it appears the remedy is meeting RAOs.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels and RAOs used at the time of the remedy selection still valid?

Question B Summary

The exposure assumptions, toxicity data, cleanup levels, and RAO remain valid. The cleanup goals are the lower of federal drinking water standards or ground water action levels based on the Iowa Administrative Code and the cleanup levels are MCLs, which have not changed since the last FYR.

Human Health Risk

Ground water data collected from monitoring wells in 2023 indicate that levels of COCs remain below

the cleanup levels (ClearPath Consultants, 2023). The cleanup levels set forth in the ROD remain relevant, except for lead, which was changed to 15 μ g/L in a previous FYR (EPA 2019). Since the last FYR, the cleanup levels have not changed and remain protective of human health.

COC	Cleanup Level 2019 (μg/L)	Cleanup Level 2023 (μg/L)	Source
Benzene	1	1	Iowa Action Level (MCL is 5)
Cadmium	5	5	MCL
Chromium	100	100	Total Chromium MCL
Lead	15*	15*	MCL

^{*}Action level for lead changed from 50 micrograms per liter, or $\mu g/L$, to 15 $\mu g/L$ since the 1989 ROD.

Ecological Risk

During the 2018 FYR, the EPA collected four surface water and four sediment samples from the wetland. These results were compared to Ecological Screening Values for sediment and surface water. Relatively high concentrations of acetone were found at Site 1; however, this elevated concentration was likely due to laboratory practices. Additionally, for some of the volatile organic compounds, detection limits were higher than the ecological screening level (ESV), which is a data gap. Overall, risk to aquatic life was determined to be low; however, an additional round of sediment sampling was recommended to address issues related to elevated detection limits and as a means of additional monitoring. To date, additional sediment sampling has not been conducted; therefore, additional sediment sampling continues to be a recommendation for the next FYR. Regarding threatened and endangered species, since the last FYR, the tricolored bat has been proposed listed as an endangered species, and the monarch butterfly has been added as a candidate (not yet proposed listed). However, no critical habitat has been identified near the site.

Changes in Standards and To Be Considereds

For ground water, the lower federal drinking water standards or ground water action levels based on the Iowa Administrative Code were identified as cleanup goals. Specifically, the cleanup level of $1\,\mu\text{g/L}$ benzene was from the Iowa Administrative Code and is lower than the current federal MCL of $5\,\mu\text{g/L}$. The action level for lead was $50\,\mu\text{g/L}$ in the 1990 ROD, which exceeds the current level of $15\,\mu\text{g/L}$. The action levels for cadmium ($5\,\mu\text{g/L}$) and chromium ($100\,\mu\text{g/L}$) reflect the current MCLs (EPA 2023). Ground water samples collected in May 2018 and in June 2023 were compared with the current MCLs. When MCLs are not available current EPA Regional Screening Levels for tap water were compared to evaluate potential exceedances (EPA 2019, ClearPath Consultants 2023).

Changes in Toxicity and Other Contaminant Characteristics

The human health risk assessment for this site was conducted in 1990. Over the last 33 years, significant changes in contaminant toxicity values have occurred. For example, the primary COC in

ground water, benzene, was evaluated using an oral cancer slope factor of 2.9E-02 (mg/kg-day)⁻¹, compared to today's value of 5.5E-02 (mg/kg-day)⁻¹ (EPA 2019). However, human risks associated with exposure to soil were addressed by capping the entire landfill, preventing exposures. Similarly, risks from exposure to ground water were primarily addressed via controls prohibiting use (EPA 2014, 2019).

To evaluate whether additional chemicals would be considered COCs, the maximum concentrations detected in soil and ground water are reported in the Remedial Investigation were compared with current MCLs and risk-based values (EPA 1989, 1990). No additional chemicals were identified as COCs.

Changes in Risk Assessment Methods

Significant changes in risk assessment methodology have occurred since the risk assessment was completed for the site (EPA 2019). For example, risks associated with exposure to lead were evaluated using a reference dose. Today, the EPA would use the EPA's Integrated Exposure Biokinetic Model and Adult Lead Methodology to evaluate potential risks (EPA 2021). However, human risks associated with exposure to lead in soil were addressed by capping the entire landfill, preventing exposures. Site ground water monitoring should continue to be evaluated using the current, more stringent federal or state MCLs and risk- based values to ensure the remedy remains protective. Since the last FYR, no significant changes in risk assessment methodology have occurred.

Changes in Risk Assessment Methods

Significant changes in risk assessment methodology have occurred since the risk assessment was completed for the site (EPA 2019). For example, risks associated with exposure to lead were evaluated using a reference dose. Today, the EPA would use the EPA's Integrated Exposure Biokinetic Model and Adult Lead Methodology to evaluate potential risks (EPA 2021). However, human risks associated with exposure to lead in soil were addressed by capping the entire landfill, preventing exposures. Site ground water monitoring should continue to be evaluated using the current, more stringent federal or state MCLs and risk- based values to ensure the remedy remains protective. Since the last FYR, no significant changes in risk assessment methodology have occurred.

Changes in Exposure Pathways

The EPA is not aware of any changes in land use, routes of exposure, contaminants, toxic byproducts, or physical site conditions that could impact the protectiveness of the remedy.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?

We are not aware of any additional information that could impact the protectiveness of the remedy at this time. Based on the National Oceanic and Atmospheric Administration's 2022 climate summary for lowa, temperatures across the State have risen more than 1 degree since the beginning of the 20th century, with warming concentrated in the winter and fall. Spring precipitation has been above average since 1990. Higher levels of precipitation and flooding may increase infiltration in the landfill, which is more likely if the cap is not maintained adequately. Higher rainfall would also impact ground water levels, as well as surface water levels in the nearby wetland. On the other hand, higher temperatures may lead to higher evapotranspiration rates, leading to drier conditions at the site.

VI. ISSUES/ RECOMMENDATIONS/ OTHER FINDINGS

Issues/Recommendations
OU(s) without Issues/Recommendations Identified in the Five-Year Review:
01

Other Findings

By the next FYR, there are several items identified that should be considered to update or modify the current O&M plan. These recommendations do not impact current or future protectiveness.

- Evaluate the ground water monitoring network for purposes of ongoing O&M and continue to provide sufficient information for review during future FYRs.
- Collect another round of sediment samples in the wetland area before the next FYR in 2029 to continue monitoring of site COCs.
- Conduct DPT sampling along the west side of the site boundary similar to May 2018 sampling locations.
- Conduct DPT sampling in the proximity of Monitoring Wells WFE-7A and 7B.
- Replace the locking well casing cap on Monitoring Well WFE-5B.
- Replace or abandon Monitoring well WFE-6A

VII. PROTECTIVENESS STATEMENT

Protectiveness Statement(s)		
Operable Unit:	Protectiveness Determination:	Planned Addendum Completion Date:
OU1 Groundwater	Protective	N/A
Protectiveness Statement: The	Remedy at the site is protective of human health a	nd the environment.
Sitewide Protectiveness Statem	nent	
Protectiveness Determination:		Planned Addendum Completion Date:
Protective		N/A
Protectiveness Statement: The	Remedy at the site is protective of human health a	nd the environment.

VIII. NEXT REVIEW

The next FYR report for the White Farm Equipment Co. Dump Superfund site is required five years from the completion date of this review.

APPENDIX A- REFERENCE LIST

Reference List

EPA. 1990. Final Revised Risk Assessment for the White Farm Equipment Landfill Site, Charles City, Iowa. U.S. Environmental Protection Agency Region 7. June 15, 1990.

EPA. 1990. Record of Decision for the White Farm Equipment Co. Dump Site, Charles City, Iowa. U.S. Environmental Protection Agency Region 7. September 28, 1990.

EPA. 1992. Explanation of Significant Differences, White Farm Equipment Co. Dump Site, Charles City, Iowa. U.S. Environmental Protection Agency Region 7. July 13, 1992.

RMT Inc. 1995. Remedial Action Report for the White Farm Equipment Landfill, Charles City, Iowa. RMT Inc., Madison, Wisconsin. July 1995.

EPA. 2009. Environmental Covenant, White Farm Equipment Co. Dump Site, Charles City, Floyd County, Iowa. United States Environmental Protection Agency Region 7, Lenexa, Kansas. October 13, 2009.

EPA. 2019. Final Fifth Five-Year Review Report, White Farm Equipment Co. Dump Site, Charles City, Floyd County, Iowa. United States Environmental Protection Agency Region 7, Lenexa, Kansas. February 28, 2019.

ClearPath Consultants. 2023. *Ground water Monitoring and Site Inspection Report, September 2023,* White Farm Equipment Dump Federal Superfund Site, Charles City, Iowa.

APPENDIX B-SITE INSPECTION FORM

R7 FYR Inspection Form

Please fill out relevant information. If a section doesn't apply, you may select "N/A" and click the arrow next to the section header to minimize the information.

Site Information

Site Name	White Farm Equipment Co Dump				
Date of Inspection	8/7/2023				
Location	Property Address: Click or tap here to	enter text.			
	City: Charles City				
	County: Floyd				
	State: Iowa				
Region	Region 7				
EPA ID	IAD065210734				
Agency, Office, or	EPA				
Company Leading Five-					
Year Review					
Weather/Temperature	Warm and Humid				
Remedy includes:	□ Landfill cover/containment				
	☐Access controls	☐ Groundwater containment			
		☐Vertical barrier walls			
	\square Groundwater pump and	☐Surface water collection and			
	treatment	treatment			
	□Other: Click or tap here to enter				
	text.				
Attachments	☐ Inspection team roster attached				
	☐Site map attached				
	☐ Photo log attached				
Interviews (□Appl	licable □N/A)				
Fill out all that apply.					
O&M Site Manager					
Name: Shelley Nelleson		Problems and Suggestions:			
Title: Project Manager		Click or tap here to enter text.			
Date: Click or tap here to	enter text.				
Interviewed:					
□ At site					
□ At office					
By phone Phone Number: Click or tap here to enter text.					
⊠Report attached					

O&M Staff	
Name: Click or tap here to enter text.	Problems and Suggestions:

Title: Click or tap here to enter text.	Click or tap here to enter text.
Date: Click or tap here to enter text.	
Interviewed:	
☐At site	
☐At office	
☐ By phone Phone Number: Click or tap here to enter text.	
☐ Report attached	
Local Regulatory Authorities and Response Agencies	
For example, state and tribal offices, emergency response office	ce, police department, office of public
health or environmental health, zoning office, recorder of deed	ds, or other city and county officials.
Agency: Click or tap here to enter text.	Problems and Suggestions:
Name: Click or tap here to enter text.	Click or tap here to enter text.
Title: Click or tap here to enter text.	
Date: Click or tap here to enter text.	
Phone Number: Click or tap here to enter text.	
☐Report attached	
Agency: Click or tap here to enter text.	Problems and Suggestions:
Name: Click or tap here to enter text.	Click or tap here to enter text.
Title: Click or tap here to enter text.	
Date: Click or tap here to enter text.	
Phone Number: Click or tap here to enter text.	
☐Report attached	
Agency: Click or tap here to enter text.	Problems and Suggestions:
Name: Click or tap here to enter text.	Click or tap here to enter text.
Title: Click or tap here to enter text.	
Date: Click or tap here to enter text.	
Phone Number: Click or tap here to enter text.	
☐Report attached	
Agency: Click or tap here to enter text.	Problems and Suggestions:
Name: Click or tap here to enter text.	Click or tap here to enter text.
Title: Click or tap here to enter text.	
Date: Click or tap here to enter text.	
Phone Number: Click or tap here to enter text.	
☐ Report attached	
Other later in a few towns!)	
Other Interviews (optional) Report attached	
Click or tap here to enter text.	
Chick of tap here to enter text.	

D&M Documents			
⊠O&M manual	☐ Readily available	☐Up to date	□N/A
☐ As-built drawings	☐ Readily available	☐Up to date	⊠N/A
☐ Maintenance logs Remarks: Click or tap here to enter text	☐ Readily available	☐Up to date	⊠N/A
Site-Specific Health and Safety Plan			
⊠Site-Specific Health and Safety Plan	⊠ Readily available	⊠Up to date	□N/A
⊠Contingency Plan/Emergency Response Plan	⊠ Readily available	⊠Up to date	□N/A
Remarks: Click or tap here to enter text			
O&M and OSHA Training Records			
☐O&M and OSHA training records	☐ Readily available	☐Up to date	⊠N/A
			MALIA
□Air discharge permit	Readily available	□Up to date	⊠N/A
□Air discharge permit □Effluent discharge	☐ Readily available	☐Up to date	⊠N/A
□ Air discharge permit □ Effluent discharge □ Waste disposal, POTW	☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date	⊠N/A ⊠N/A
	☐ Readily available	☐Up to date	⊠N/A

Settlement Monument Records				
Settlement monument records	☐ Readily a	vailable	☐Up to date	⊠N/A
Remarks: Click or tap here to enter text				
Groundwater Monitoring Records				
☐ Groundwater monitoring records	⊠ Readily a	vailable	⊠Up to date	□N/A
Remarks: Click or tap here to enter text	•			
Leachate Extraction Records				
Leachate extraction records	☐ Readily a	vailahle	☐Up to date	⊠N/A
Remarks: Click or tap here to enter text	· · · · · ·	valiable		
·				
Discharge Compliance Records				
□ Air	☐ Readily a		☐Up to date	⊠N/A
Water (effluent)	☐ Readily a	vailable	☐Up to date	⊠N/A
Remarks: Click or tap here to enter text	•			
Daily Access/Security Logs				
☐ Daily access/security logs	☐ Readily a	vailable	☐Up to date	⊠N/A
Remarks: Click or tap here to enter text				
	Ja DNI	/		
D&M Costs (□Applicab	ole 🗆 N,	(A)		
O&M Organization				
☐State in-house		□Contracto	or for state	
☐PRP in-house		□Contracto	or for PRP	
☐ Federal facility in-house		□ Contracto	or for federal facility	

O&M Cost Records			
Readily available	☐Up to date		Funding
	□ op to date		echanism/agreement in place
Original O&M cost estin	nate: Click or tap here to enter		Breakdown attached
Гotal annual cost by yea	r for review period, if available		
Fuere Cliek enten benet	a antantant to Clieb antan ban		
From Click or tap here to Total cost: Click or tap h	o enter text. to Click or tap here	e to enter text.	
□Breakdown attached	ere to effect text.		
From Click or tap here to	o enter text. to Click or tap here	e to enter text.	
Total cost: Click or tap h	ere to enter text.		
☐Breakdown attached			
Erom Click or tan hara t	o ontor toyt to Click or tan bar	to ontor toyt	
Total cost: Click or tap h	o enter text. to Click or tap here	e to enter text.	
☐Breakdown attached	ere to enter text.		
From Click or tap here to	o enter text. to Click or tap here	e to enter text.	
Total cost: Click or tap h	ere to enter text.		
☐Breakdown attached			
·	o enter text. to Click or tap here	e to enter text.	
Total cost: Click or tap h	ere to enter text.		
☐Breakdown attached			
Unanticipated or Unusi	ually High O&M Costs During Ro	eview Period	
•	ons: Click or tap here to enter to		
	: / \square / \square	plicable [□N/A)
Access and Institu	itional Controls (LIA)		
	itional Controls (LIA)		
A. Fencing		Gates secured	□N/A
A. Fencing		Gates secured	□N/A
A. Fencing	□ Location shown on	dates secured	□N/A
Access and Institu A. Fencing Fencing damaged	□ Location shown on		□N/A

B. Other Access Restriction	ons					
Signs and other security	\square Location shown on site map \square N/A					
measures	Remarks: Signs in place					
C. Institutional Controls (ICs)					
Implementation and enforcement	Site conditions imply ICs not properly implemented	□Yes ⊠No □N/A				
	Site conditions imply ICs not being fully enforced	□Yes ⊠No □N/A				
	Type of monitoring (e.g., self-reporting, drive-by): Frequency: Once Per 5 years Responsible party/agency: EPA	Site Visit				
	Contact: Wes March Title: RPM Date: Click or tap here to enter text.					
	Phone number: Click or tap here to enter text.					
	Reporting is up to date	⊠Yes □No □N/A				
	Reports are verified by the lead agency	⊠Yes □No □N/A				
	Specific requirements in deed or decision	⊠Yes □No □N/A				
	documents have been met					
	Violations have been reported Other problems or suggestions: Click or tap here	□Yes □No ⊠N/A				
	to enter text.					
	☐Report attached					
Adequacy	☐ICs are adequate ☐ICs are inadequate	□N/A				
	Remarks: Click or tap here to enter text.					
D. General						
Vandalism/trespassing	□Location shown on site map	⊠ No vandalism				
	Remarks: Click or tap here to enter text.	1				
Landuca character						
Land use changes on site	□N/A					
Site	Remarks: Site Use remains unchanged					
	□n/A					

Land use changes off site	Remarks: Nearby use ha	Remarks: Nearby use has not changed				
General Site Cond	ditions (□Appli	rahle l	□N/A)			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	cubic i				
A. Roads	☐ Applicable ⊠ N/A		7			
Roads damaged	☐Location shown on sit	e map L	☐Roads adeq	uate	□ N/A	
Remarks: Click or tap h	ere to enter text.					
B. Other Site Condition						
Remarks: Click or tap he						
Remarks. eliek of tap in	ere to enter text.					
andfill Covers	(□Applicable □N	√A)				
andfill Surface (□A _l	oplicable □N/A)					
1. Settlement (low		☐ Location shown on site map ☐ Settlement not evident			evident	
spots)	Areal extent: Click or tagenter text.	Areal extent: Click or tap here to enter text.		Depth: Click or tap here to enter text.		
	Remarks: Click or tap he	re to enter to	ext.			
2. Cracks	☐Location shown on sit	e map	⊠Crackin	ng not evid	dent	
	Areal Extent: Click or	Widths: Cl			Click or tap here	
	tap here to enter text.	here to en	ter text.	to ente	r text.	
	Remarks: Click or tap he	re to enter to	ext.			
3. Erosion	☐Location shown on sit	e map	⊠Erosion	not evide	ent	
	Areal Extent: Click or tag enter text.	here to	Depth: Cli	ick or tap	here to enter	
	Remarks: There were sm	nall signs of r	ninor erosion	noted by	the well driller	

4. Holes	\square Location shown on site	e map	⊠Holes no	ot evident	
	Areal Extent: Click or tap enter text.	here to	Depth: Clic text.	ck or tap here to enter	
	Remarks: Click or tap her	e to enter tex	t.		
5. Vegetative Cover	☑ Grass☐ No signs of stress☐ Cover properly establis☐ Trees/shrubs (indicate	size and locat		- ·	
	Remarks: part of site is a	hayfield while	e downgradi	ient is a wetland	
6. Alternative Cover	□Applicable		⊠N/A		
(armored rock, concrete, etc.)	Remarks: Click or tap here to enter text.				
7. Bulges	☐ Location shown on site	e map	⊠Bulges not evident		
	Areal extent: Click or tap here to enter text. Height: Click o text.		ck or tap here to enter		
	Remarks: Click or tap her	e to enter tex	t.		
8. Wet Areas and Water	☐ Wet areas/water dam	age not evide	nt		
Damage	⊠Wet areas	□Location s map site	shown on	Areal extent: Click or tap here to enter text.	
	□Ponding	☐Location s map site	shown on	Areal extent: Click or tap here to enter text.	
	□Seeps	□Location s map site	Location shown on nap site Areal extent: Clark here to enter to		
	☐Soft subgrade	☐Location s map site	shown on	Areal extent: Click or tap here to enter text.	
	Remarks: the southern 2	nested wells a	are in a wet	land area	
9. Slope Instability	□Slides	☐Location site map	shown on	⊠No evidence of slope instability	
	Areal extent: Click or tap	here to enter	text.		
	Remarks: Click or tap her	e to enter tex	t.		

Benches (\square Applicable \square N/A)

Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.

1. Flows Bypass Bench	☐Location shown on site map	⊠N/A or okay
	Remarks: Click or tap here to enter tex	t.
2. Bench Breached	\square Location shown on site map	⊠N/A or okay
	Remarks: Click or tap here to enter tex	t.
3. Bench Overtopped	☐Location shown on site map	⊠N/A or okay
	Remarks: Click or tap here to enter tex	t.

Letdown Channels (□Applicable □N/A)

Channel lined with erosion control mats, riprap, grout bags, or gabions that descend the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.

1. Settlement	\square Location shown on site map	\square No evidence of settlement
	Areal extent: Click or tap here to	Depth: Click or tap here to enter
	enter text.	text.
	Remarks: Click or tap here to enter tex	t.
2. Material Degradation	\square Location shown on site map	\square No evidence of degradation
	Areal extent: Click or tap here to enter text.	Material type: Click or tap here to enter text.
	Remarks: Click or tap here to enter tex	t.
3. Erosion	\square Location shown on site map	\square No evidence of erosion
	Areal extent: Click or tap here to enter text.	Depth: Click or tap here to enter text.

	Remarks: Click or tap here	e to enter tex	t.		
4. Undercutting	☐ Location shown on site map		☐ No evidence of undercutting		
	Areal extent: Click or tap enter text.	here to	Depth: Click or tap here to enter text.		
	Remarks: Click or tap here	e to enter tex	t.		
5. Obstructions	\square Location shown on site	map	□No evide	ence of undercutting	
	Type: Click or tap here to enter text. Areal extent: C tap here to enter t			Size: Click or tap here to enter text.	
	Remarks: Click or tap here	e to enter tex	t.		
6. Excessive Vegetative Growth	☐Location shown on site map	☐ No evider excessive gr		☐ Vegetation in channels does not obstruct flow	
	Type: Click or tap here to		<u>'</u>		
	Remarks: Click or tap here	e to enter tex	t.		
Cover Penetrations (□A	Applicable ⊠N/A)				
1. Gas Vents	□Active		☐ Passive		
	□ Properly secured/locked□ Routinely sampled□ Evidence of leakage at penetration		☐ Functioning ☐ Good condition ☐ Needs maintenance ☐ N/A		
	Remarks: Click or tap here	•		,	
2. Gas Monitoring	☐ Properly secured/locke	ed	☐ Functio	=	
Probes	☐ Routinely sampled☐ Evidence of leakage at	penetration	☐ Good co	ondition naintenance □ N/A	
	Remarks: Click or tap here	e to enter tex	t.		

3. Monitoring Wells (within surface area of landfill)	☐ Properly secured/locked☐ Routinely sampled☐ Evidence of leakage at penetration	☐ Functioning☐ Good condition☐ Needs maintenance☐ N/A			
	Remarks: Click or tap here to enter tex				
4. Leachate Extraction Wells	☐ Properly secured/locked ☐ Routinely sampled ☐ Evidence of leakage at penetration Remarks: Click or tap here to enter text.				
5. Settlement	□Located □Routine	ly surveyed N/A			
Monuments	Remarks: Click or tap here to enter text.				
Gas Collection and Treat 1. Gas Treatment Facilities	atment (□Applicable ⊠N/A) □Flaring □ Thermal destru □ Good condition □ Needs mainte				
	Remarks: Click or tap here to enter tex				
2. Gas Collection Wells,	☐ Good condition ☐ Needs maintenance				
Manifolds and Piping	Remarks: Click or tap here to enter text.				
3. Gas Monitoring	☐ Good condition ☐ Needs mainte	enance \square N/A			
Facilities (e.g., gas monitoring of adjacent homes or buildings)	Remarks: Click or tap here to enter te	xt.			
Cover Drainage Layer (□Applicable □N/A)				
1. Outlet Pipes Inspected	☐ Functioning ☐ N/A				
пізрестей	Remarks: Click or tap here to enter tex	xt.			

2. Outlet Rock Inspected	☐ Functioning ☐ N/A				
	Remarks: Click or tap here to enter text.				
Netention/Sedimentati	∟ ion Ponds (□Applicable	e ⊠N/A)			
1. Siltation	☐Siltation not relevant		□N/A		
	Areal extent: Click or tap enter text.	here to	Depth: Clic text.	ck or tap here to enter	
	Remarks: Click or tap her	e to enter tex	t.		
2. Erosion	☐ Erosion not relevant		□N/A		
	Areal Extent: Click or tap enter text.	here to	Depth: Clie	ck or tap here to enter	
	Remarks: Click or tap her	e to enter tex	t.		
3. Outlet Works	☐ Functioning ☐ N/A				
	Remarks: Click or tap her	e to enter tex	t.		
4. Dam	☐ Functioning ☐ N/A				
	Remarks: Click or tap here to enter text.				
Retaining Walls (□App	licable ⊠N/A)				
1. Deformations	☐ Location shown on site	e map	□Deform	ation not evident	
	Horizontal displacement: Click or tap here to enter text. Remarks: Click or tap her	Vertical disp Click or tap h enter text. Te to enter tex	nere to	Rotational displacement: Click or tap here to enter text.	
2 Dogradation			□ D !	akion nok avident	
2. Degredation	\square Location shown on site	e map	∟⊔∪egrada	ation not evident	

/ertical Barrier Wa 1. Settlement		☐ Location showr	n on map	☐ Sett	tlement not relevant		
ertical Barrier Wa		☐ Location shown on map			☐ Settlement not relevant		
	alls (□Applicable	⊠N/A)				
	Rema	rks: Click or tap hei	re to enter tex	ct.			
4. Discharge Structure	□ Functioning □ N/A						
	Rema	rks: Click or tap her	re to enter tex	(t.			
			Depth: Cli	Depth: Click or tap here to enter text.			
3. Erosion	☐ Lo	☐ Location shown on map			☐ Erosion not relevant		
	Rema	rks: Click or tap he	re to enter tex	rt.			
	Type:	Click or tap here to	enter text.	Areal exte	nt: Click or tap here to		
2. Excessive Vegetative Growth	site n	<u> </u>	□N/A		□Vegetation does not impede flow		
	Rema	rks: Click or tap her	re to enter tex	rt.			
	Areal enter	extent: Click or tap text.	here to	Depth: Cli text.	Depth: Click or tap here to enter text.		
1. Siltation	□ Lo	cation shown on m	ар	☐ Siltatio	n not relevant		
erimeter Ditches/Off-	Site Di	scharge (□Appli	cable ⊠N/	(A)			
		·	re to enter tex				

		Remarks: Click or tap here to enter text.							
2. Performance Monitoring		☐ Performance not monitored			☐ Evidence of breaching				
		Type of monitoring: Frequency Click or tap here to enter text. text.							
	Remarks: Click or tap here to enter text.								
Groundwater/Sur	face V	Vater Remed	ies	(□,	\pplica	able	⊠N	/A)	
Groundwater Extraction Pumps, Wellhead Plum			ipelir	nes	(□	□Appli	cable	□N/A)	
☐Good condition	□All r	required wells				□N/A	□N/A		
Remarks	Click o	or tap here to enter	text.						
Extraction System Pipe	lines, Val	lves, Valve Boxes,	and O	ther Appurt	enances				
☐Good condition				eeds mainte					
Remarks	Click or tap here to enter text.								
Success Double and Favilian									
Spare Parts and Equipn Readily available		od condition	□R€	equires upgra	ade		eds to be		
Remarks	Click o	or tap here to enter	text.			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Surface Water Collection Structures, Pumps, and Pipelines (\square Applicable \square N/A)

Collection Structures, Pumps, and Electrical								
☐Good condition		☐ Needs maintenance						
Remarks	Click or tap here to ente	r text.						
Surface Water Collecti	on System Pipelines, Valves	s, Valve Boxes, and Other A	Appurtenances					
☐Good condition		☐ Needs maintenance						
Remarks	Click or tap here to ente	r text.						
Spare Parts and Equip	ment							
Readily available	☐Good condition	☐ Requires upgrade	□Needs to be provided					
Remarks	Click or tap here to ente	r text.						
Treatment System ([□Applicable □N/A)							
1. Treatment Train	 □ Metals removed □ Bioremediation □ Carbon adsorbers □ Filters: Click or tap here to enter text. □ Additive (e.g., chelation agent, flocculent): Click or tap here to enter text. □ Others: Click or tap here to enter text. □ Good condition □ Needs maintenance □ Sampling ports properly marked and functional □ Sampling/maintenance log displayed and up to date □ Equipment properly identified 							

	☐ Quantity of groundwater treated annually: Click or tap here to enter text.☐ Quantity of surface water treated annually: Click or tap here to enter text.				
	Remarks: Click or tap here to enter text.				
2. Electrical Enclosures	□N/A □Good		Condition	□Needs Mair	ntenance
and Panels (properly rated and functional)	Remarks: Click or tap here to enter text.				
3. Tanks, Vaults, Storage	□N/A		☐Good Condition		
Vessels	☐ Proper secondary cont	ainment	☐ Needs Maintenance		
	Remarks: Click or tap here to enter text.				
4. Discharge Structure	□N/A	□Good	Condition	□ Needs Mair	ntenance
and Appurtenances	Remarks: Click or tap here to enter text.				
5. Treatment Building(s)	□ N/A □ Chemicals and equipment properly stored		☐Good Condition (esp. roof and doorways)		
			□ Needs Repair		
6. Monitoring Wells	Remarks: Click or tap here to enter text. □ Properly secured/locked □ Functioning				
(pump and treatment	☐ Routinely sampled		☐ Good condition		
remedy)	☐ All required wells located		☐ Needs Maintenance ☐ N/A		
	Remarks: Click or tap here to enter text.				
Monitoring Data (⊠Ap	plicable □N/A)				
1. Monitoring Data	☐ Is routinely submitted on time		\square Is of acceptable quality		
2. Monitoring data suggests:	☐ Groundwater plume is effectively contained		□ Contaminant concentrations are declining		
Monitored Natural Attenuation (⊠Applicable □N/A)					
1. Monitoring Wells	⊠Properly secured/locke	d	☐ Functio	ning	
(natural attenuation	☐ Routinely sampled		\square Good condition		
remedy)			☐ Needs Maintenance ☐ N/A		□ N/A

	Remarks: 3 new wells were installed to replace existing non-funciton wells. All 6 wells are fully functional
Other Remedies (□Applicable ⊠N/A)
• • • • • • • • • • • • • • • • • • • •	ed at the site which are not covered above, attach an inspection sheet ure and condition of any facility associated with the remedy. An example ion.
Overall Observation	ns
	ations relating to whether the remedy is effective and functioning as f statement of what the remedy is to accomplish (i.e., to contain contaminant
area is residential propert	nt field that is fenced off and used only for hay farming. The surrounding ies situated on several acre sized plots of land primarily green space. to the south is perpetually water bearing area considered to be a wetland.
	ations related to the implementation and scope of O&M procedures. In ationship to the current and long-term protectiveness of the remedy.

Historic O&M was not adequate to maintain well integrity and functionality so many rounds of sample data were not collected. However, with this FYR The issues of the previous FYR were addressed and new wells were installed. The current O&M has the remedy functioning as intended.

Early Indicators of Potential Remedy Problems

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs that suggest that the protectiveness of the remedy may be compromised in the future.

Click or tap here to enter text.
Opportunities for Optimization
Opportunities for Optimization
Opportunities for Optimization Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

APPENDIX C- PHOTO LOG





Photo 1: View of well locations for WFE-7AR & WFE-7BR pre- installation.

Photo 2: View of WFE-7AR & WFE-7BR post-installation.



Photo 3: View of WFE-7AR facing North.



Photo 4: View of WFE-7BR facing North.



Photo 5: View of WFE-5A & WFE-5B facing West.



Photo 6: Close up view of WFE-5A with stickup lid missing.



Photo 7: Close up view of WFE-5B facing Northwest.



Photo 8: Close up view of WFE-6B facing Northwest.



Photo 9: Close up view of WFE-6B showing lid damage facing West.



Photo 10: View of general location of WFE-6B facing West.



Photo 11: View of former location of WFE-6A and lid.



Photo 12: View of the landfill cap entrance facing South.



Photo 13: View of the landfill cap facing South.



Photo 14: View of Northwest corner of landfill cap facing South.



Photo 15: View of pipe from abandoned WFE-7A.



Photo 16: View of abandonment of WFE-7B.



Photo 17: Close up view of excavation under concrete pad during abandonment of WFE-7B.



Photo 18: View of abandoned WFE-7B.

White Farm Sixth FYR Photo Log

APPENDIX D-ANALYTICAL DATA

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-01

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-01. This sample was collected on 6/27/2023 at the location described as: MW7AR (40'-50'). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-01 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	Approximately 150	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	13.0	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-01 (Continued)

Analysis / Analyte	Amount Found	Units
ontract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Methyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	Less Than 0.50	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Benzene	Less Than 0.50	Micrograms per Liter
1,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Trichloroethene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane	Less Than 0.50	Micrograms per Liter
1,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
Bromodichloromethane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 0.50	Micrograms per Liter
rans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
2-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
p-Xylene	Less Than 0.50	Micrograms per Liter
n and/or p-Xylene	Less Than 0.50	Micrograms per Liter
Styrene	Less Than 0.50	Micrograms per Liter
Bromoform	Less Than 0.50	Micrograms per Liter
Isopropylbenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
l,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-01 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-02

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-02. This sample was collected on 6/27/2023 at the location described as: MW7BR (12'-22"). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-02 for project: White Farm Equipment Company.

Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	44.0	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-02 (Continued)

Analysis / Analyte	Amount Found	Units
ontract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
crans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
viethyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
L,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
is-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	Less Than 0.50	Micrograms per Liter
l.1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Benzene	Less Than 0.50	Micrograms per Liter
,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Trichloroethene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane	Less Than 0.50	Micrograms per Liter
,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
Bromodichloromethane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
l-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 0.50	Micrograms per Liter
rans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
I,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
2-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
p-Xylene	Less Than 0.50	Micrograms per Liter
n and/or p-Xylene	Less Than 0.50	Micrograms per Liter
Styrene	Less Than 0.50	Micrograms per Liter
Bromoform	Less Than 0.50	Micrograms per Liter
(sopropylbenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-02 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-03

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-03. This sample was collected on 6/27/2023 at the location described as: MW6B (14'-24'). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-03 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	29.0	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-03 (Continued)

Analysis / Analyte	Amount Found	Units
ontract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Methyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	Less Than 0.50	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Benzene	Less Than 0.50	Micrograms per Liter
1,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Trichloroethene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane	Less Than 0.50	Micrograms per Liter
1,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
Bromodichloromethane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 0.50	Micrograms per Liter
rans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
2-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
p-Xylene	Less Than 0.50	Micrograms per Liter
n and/or p-Xylene	Less Than 0.50	Micrograms per Liter
Styrene	Less Than 0.50	Micrograms per Liter
Bromoform	Less Than 0.50	Micrograms per Liter
Isopropylbenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
l,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-03 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-04

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-04. This sample was collected on 6/27/2023 at the location described as: Field Duplicate (MW6B). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-04 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	29.0	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-04 (Continued)

Analysis / Analyte	Amount Found	Units
ontract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Frichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
rans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
lethyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
is-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	0.65	Micrograms per Liter
,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
arbon Tetrachloride	Less Than 0.50	Micrograms per Liter
enzene	Less Than 0.50	Micrograms per Liter
,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
richloroethene	Less Than 0.50	Micrograms per Liter
1ethylcyclohexane	Less Than 0.50	Micrograms per Liter
,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
romodichloromethane	Less Than 0.50	Micrograms per Liter
is-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
oluene	Less Than 0.50	Micrograms per Liter
rans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
.,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
Xylene	Less Than 0.50	Micrograms per Liter
n and/or p-Xylene	Less Than 0.50	Micrograms per Liter
tyrene	Less Than 0.50	Micrograms per Liter
Bromoform	Less Than 0.50	Micrograms per Liter
sopropylbenzene	Less Than 0.50	Micrograms per Liter
.,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
.,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
I,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-04 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-05

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-05. This sample was collected on 6/27/2023 at the location described as: MW5B (15'-25"). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-05 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	56.0	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-05 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Methyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	Less Than 0.50	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Benzene	Less Than 0.50	Micrograms per Liter
1,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Trichloroethene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane	Less Than 0.50	Micrograms per Liter
1,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
Bromodichloromethane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 0.50	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
2-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene Ethyl Ronzono	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
o-Xylene	Less Than 0.50 Less Than 0.50	Micrograms per Liter
m and/or p-Xylene Styrene	Less Than 0.50	Micrograms per Liter
Styrene Bromoform	Less Than 0.50	Micrograms per Liter
Isopropylbenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene		Micrograms per Liter
1,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-05 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-06

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-06. This sample was collected on 6/27/2023 at the location described as: Equipment Blank. If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-06 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	Less Than 1.00	Micrograms per Liter
Barium	Less Than 10.0	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-06 (Continued)

	Analysis / Analyte	Amount Found	Units
Characebane	Contract SOW-Volatiles (Continued)		
Tricklorduromethane	Bromomethane	Less Than 0.50	Micrograms per Liter
1.1. Orthinorethrore	Chloroethane	Less Than 0.50	Micrograms per Liter
1.2-Trichrotrotriluocethane	Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
Actione 11 Micrograms per Liter Carbon Disalfice Less Than 0.50 Micrograms per Liter Methyl Acades Less Than 0.50 Micrograms per Liter Methyl ferch University Less Than 0.50 Micrograms per Liter Methyl ferch University Less Than 0.50 Micrograms per Liter 1,1-Ochknorebine Less Than 0.50 Micrograms per Liter 64-1,2-Ochknorebine Less Than 0.50 Micrograms per Liter 64-1,2-Ochknorebine Less Than 0.50 Micrograms per Liter 7-Bustanion Less Than 0.50 Micrograms per Liter Chocknore Less Than 0.50 Micrograms per Liter	1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
Carbon Disultide	1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Methyl Acetate Les Than C.50 Micrograms per Liber Methyliper Cilvoride Les Than C.50 Micrograms per Liber Methyliper Cilvoride Les Than C.50 Micrograms per Liber Micrograms per Liber Les Than C.50 Micrograms pe	Acetone	11	Micrograms per Liter
Methylene Chloride	Carbon Disulfide	Less Than 0.50	Micrograms per Liter
trans-1_2-Obrithoroetherne Less Than 0.50 Micrograms per Ulter Nethyl Larbe buyl either Less Than 0.50 Micrograms per Ulter 1_1-Dickloroethane Less Than 0.50 Micrograms per Ulter 2-Butanone Less Than 0.50 Micrograms per Ulter 2-Butanone Less Than 0.50 Micrograms per Ulter Chlorofform Less Than 0.50 Micrograms per Ulter 1_1,1-Trichtorostatione Less Than 0.50 Micrograms per Ulter Cycloheane Less Than 0.50 Micrograms per Ulter Cycloheane Less Than 0.50 Micrograms per Ulter 1_2-Dickloroethane Less Than 0.50 Micrograms per Liber Methyly-2-perlatione Less Than	Methyl Acetate	Less Than 0.50	Micrograms per Liter
Micrograms per Liter	Methylene Chloride	Less Than 0.50	Micrograms per Liter
1.1-Dichloroethane	trans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Control Cont	Methyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
2-Butanone Less Than 5.0 Micrograms per Liter Bromochbromethane Less Than 0.50 Micrograms per Liter Chloroform Less Than 0.50 Micrograms per Liter LyL1,1-Trichionethane Less Than 0.50 Micrograms per Liter Cyclohecane Less Than 0.50 Micrograms per Liter Carbon Tetrachloride Less Than 0.50 Micrograms per Liter Benzene Less Than 0.50 Micrograms per Liter 1,2-Dichlorothane Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter Michlorothane Less Than 0.50 Micrograms pe	1,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
Bomochloromethane Less Than 0.50 Micrograms per Liter Chloroform Less Than 0.50 Micrograms per Liter 1,1,1-Trichloroethane Less Than 0.50 Micrograms per Liter Cyclohexane Less Than 0.50 Micrograms per Liter Carbon Tetrachloride Less Than 0.50 Micrograms per Liter Berzene Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter 1,2-Dichloropropane Less Than 0.50 Micrograms per Liter 1,2-Dichloropropane Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 2+Beachine Less Than	cis-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Chloroform Less Than 0.50 Micrograms per Liter 1,1,1-Trichloroethane Less Than 0.50 Micrograms per Liter Cyclohexane Less Than 0.50 Micrograms per Liter Carbon Tetachoride Less Than 0.50 Micrograms per Liter Berwane Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter Trichlocethene Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter Bromodichioromethane Less Than 0.50 Micrograms per Liter Gis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per L	2-Butanone	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane Less Than 0.50 Micrograms per Liter Cyclohexane Less Than 0.50 Micrograms per Liter Carbon Tetrachloride Less Than 0.50 Micrograms per Liter Benzene Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter Trichloroethane Less Than 0.50 Micrograms per Liter Methylocyclohexane Less Than 0.50 Micrograms per Liter 1,2-Dichloropropane Less Than 0.50 Micrograms per Liter Bromodichioromethane Less Than 0.50 Micrograms per Liter 64-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromoethane Less Than 0.50 Micrograms per Liter L2-Bromoethane Less Than 0.50 Micrograms per Liter Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Elbyl Benz	Bromochloromethane	Less Than 0.50	Micrograms per Liter
Cyclohexane Less Than (0.50) Micrograms per Liter Carbon Tetrachloride Less Than (0.50) Micrograms per Liter Benzene Less Than (0.50) Micrograms per Liter 1,2-Dichloroethane Less Than (0.50) Micrograms per Liter Trichloroethane Less Than (0.50) Micrograms per Liter Metrykcyclohexane Less Than (0.50) Micrograms per Liter 1,2-Dichloropropane Less Than (0.50) Micrograms per Liter Bromodicilioromethane Less Than (0.50) Micrograms per Liter 4-Methyl-2-Pentanone Less Than (0.50) Micrograms per Liter Toluene Less Than (0.50) Micrograms per Liter Trichloroethane Less Than (0.50) Micrograms per Liter 1,1,2-Trichloroethane Less Than (0.50) Micrograms per Liter 2-Hexanone Less Than (0.50) Micrograms per Liter Dibromochioromethane Less Than (0.50) Micrograms per Liter 1,2-Dibromoethane Less Than (0.50) Micrograms per Liter Chlorodenzene Less Than (0.50) Micrograms per Liter Ethyl Benzene <	Chloroform	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter Trichloroethane Less Than 0.50 Micrograms per Liter Methylcytchexane Less Than 0.50 Micrograms per Liter L2-Dichloropropane Less Than 0.50 Micrograms per Liter Bromodichloromethane Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Tollene Less Than 0.50 Micrograms per Liter Tuans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter Tulene Less Than 0.50 Micrograms per Liter Tulene Less Than 0.50 Micrograms per Liter 1,2-Tichloroptopene Less Than 0.50 Micrograms per Liter 1,2-Tichloroptopene Less Than 0.50 Micrograms per Liter 1,2-Tichloroptopene Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50	1,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Benzene Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter 1,2-Dichloroethane Less Than 0.50 Micrograms per Liter 1,2-Dichloroptopane Less Than 0.50 Micrograms per Liter 1,2-Tichloroptopane Less Than 0.50 Micrograms per Liter 1,2-Dichloroptopane Less Than 0.50 Micrograms per Liter 1,2-Tichloroptopane Less Than 0.50 Micrograms per Liter 1,2-Tichloro	Cyclohexane	Less Than 0.50	Micrograms per Liter
1,2-Dichloroethane Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter Methylcyclohexane Less Than 0.50 Micrograms per Liter 1,2-Dichloropropane Less Than 0.50 Micrograms per Liter Bromodichloromethane Less Than 0.50 Micrograms per Liter cis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochlane Less Than 0.50 Micrograms per Liter 1,2-3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,2-2-Tetrachloroethane 1,2-3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,2-2-Tetrachloroethane 1,2-3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,2-2-Tetrachloroethane 1,2-3-Trichloropropane Less Than 0.50 Micrograms per Liter	Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Trichloroethene Less Than (0.50) Micrograms per Liter Methylcyclohexane Less Than (0.50) Micrograms per Liter 1,2-Dichloropropane Less Than (0.50) Micrograms per Liter Bromodichloromethane Less Than (0.50) Micrograms per Liter dis-1,3-Dichloropropene Less Than (0.50) Micrograms per Liter 4-Methyl-2-Pentanone Less Than (0.50) Micrograms per Liter Toluene Less Than (0.50) Micrograms per Liter 1,1,2-Trichloropropene Less Than (0.50) Micrograms per Liter 1,1,2-Trichloroethane Less Than (0.50) Micrograms per Liter Tetrachloroethene Less Than (0.50) Micrograms per Liter 2-Hexanone Less Than (0.50) Micrograms per Liter 1,2-Dibromoethane Less Than (0.50) Micrograms per Liter Chlorobenzene Less Than (0.50) Micrograms per Liter Ethyl Benzene Less Than (0.50) Micrograms per Liter O-Xylene Less Than (0.50) Micrograms per Liter Bromoform Less Than (0.50) Micrograms per Liter 1,2,3-Trichloropropane	Benzene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane Less Than 0.50 Micrograms per Liter 1,2-Dichloropropane Less Than 0.50 Micrograms per Liter Bromodichloromethane Less Than 0.50 Micrograms per Liter cis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Less Than <td>1,2-Dichloroethane</td> <td>Less Than 0.50</td> <td>Micrograms per Liter</td>	1,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Less Than 0.50 Micrograms per Liter Bromodichloromethane Less Than 0.50 Micrograms per Liter cis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene 0-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter	Trichloroethene	Less Than 0.50	Micrograms per Liter
Bromodichloromethane cis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter d-Methyl-2-Pentanone Less Than 0.50 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethane Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochlane Less Than 0.50 Micrograms per Liter 1,2-Dichloropene Less Than 0.50 Micrograms per Liter 1,2-Stylene Less Than 0.50 Micrograms per Liter 1,2-Stylene Less Than 0.50 Micrograms per Liter 1,2-3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,2-Dichlorobenzene Less Than 0.50 Micrograms per Liter 1,2-Dichlorobenzene Less Than 0.50 Micrograms per Liter 1,2-Dichlorobenzene Less Than 0.50 Micrograms per Liter	Methylcyclohexane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 4-Methyl-2-Pentanone Less Than 5.0 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethene Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Less Than 0.50 Micrograms per Liter O-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50	1,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
4-Methyl-2-Pentanone Less Than 5.0 Micrograms per Liter Toluene Less Than 0.50 Micrograms per Liter trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethane Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Tetry Benzene Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene C-Xylene Mand/or p-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter	Bromodichloromethane	Less Than 0.50	Micrograms per Liter
Toluene trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter 1,2-Yelene Less Than 0.50 Micrograms per Liter 1,2-Yelene 1,2-Yel	cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
trans-1,3-Dichloropropene Less Than 0.50 Micrograms per Liter 1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethene Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Less Than 0.50 Micrograms per Liter O-Xylene Less Than 0.50 Micrograms per Liter Bromoform Less Than 0.50 Micrograms per Liter Bromoform Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,3-Dichlorobenzene	4-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane Less Than 0.50 Micrograms per Liter Tetrachloroethene Less Than 0.50 Micrograms per Liter 2-Hexanone Less Than 0.50 Micrograms per Liter Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter I,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter I,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter	Toluene	Less Than 0.50	Micrograms per Liter
Tetrachloroethene 2-Hexanone Less Than 5.0 Micrograms per Liter Dibromochloromethane Less Than 5.0 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene C-Xylene Less Than 0.50 Micrograms per Liter m and/or p-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,3-Dichlorobenzene Less Than 0.50 Micrograms per Liter	trans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
2-Hexanone Less Than 5.0 Micrograms per Liter 1,2-Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromochlane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene c-Xylene m and/or p-Xylene Less Than 0.50 Micrograms per Liter Micrograms per Liter Ethyl Benzene Less Than 0.50 Micrograms per Liter Micrograms per Liter Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Bromoform Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,3-Dichlorobenzene	1,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Dibromochloromethane Less Than 0.50 Micrograms per Liter 1,2-Dibromoethane Less Than 0.50 Micrograms per Liter Chlorobenzene Less Than 0.50 Micrograms per Liter Ethyl Benzene 0-Xylene Less Than 0.50 Micrograms per Liter o-Xylene m and/or p-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Bromoform Less Than 0.50 Micrograms per Liter Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,3-Dichlorobenzene Less Than 0.50 Micrograms per Liter	Tetrachloroethene	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane Chlorobenzene Ethyl Benzene C-Xylene m and/or p-Xylene Styrene Bromoform Isopropylbenzene Less Than Less	2-Hexanone	Less Than 5.0	Micrograms per Liter
Chlorobenzene Ethyl Benzene C-Xylene C-Xylene Less Than Less	Dibromochloromethane	Less Than 0.50	Micrograms per Liter
Ethyl Benzene Less Than 0.50 Micrograms per Liter o-Xylene Less Than 0.50 Micrograms per Liter m and/or p-Xylene Less Than 0.50 Micrograms per Liter Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter Bromoform Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter Less Than 0.50 Micrograms per Liter 1,3-Dichlorobenzene	1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
o-Xylene Less Than 0.50 Micrograms per Liter m and/or p-Xylene Less Than 0.50 Micrograms per Liter Styrene Less Than 0.50 Micrograms per Liter l.,1,2,2-Tetrachloroptopane Less Than 0.50 Micrograms per Liter l.,1,2-Tetrachloroptopane Less Than 0.50 Micrograms per Liter l.,3-Dichlorobenzene	Chlorobenzene	Less Than 0.50	Micrograms per Liter
m and/or p-XyleneLess Than0.50Micrograms per LiterStyreneLess Than0.50Micrograms per LiterBromoformLess Than0.50Micrograms per LiterIsopropylbenzeneLess Than0.50Micrograms per Liter1,2,3-TrichloropropaneLess Than0.50Micrograms per Liter1,1,2,2-TetrachloroethaneLess Than0.50Micrograms per Liter1,3-DichlorobenzeneLess Than0.50Micrograms per Liter	Ethyl Benzene	Less Than 0.50	Micrograms per Liter
StyreneLess Than0.50Micrograms per LiterBromoformLess Than0.50Micrograms per LiterIsopropylbenzeneLess Than0.50Micrograms per Liter1,2,3-TrichloropropaneLess Than0.50Micrograms per Liter1,1,2,2-TetrachloroethaneLess Than0.50Micrograms per Liter1,3-DichlorobenzeneLess Than0.50Micrograms per Liter	o-Xylene	Less Than 0.50	Micrograms per Liter
Bromoform Less Than 0.50 Micrograms per Liter Isopropylbenzene Less Than 0.50 Micrograms per Liter 1,2,3-Trichloropropane Less Than 0.50 Micrograms per Liter 1,1,2,2-Tetrachloroethane Less Than 0.50 Micrograms per Liter 1,3-Dichlorobenzene Less Than 0.50 Micrograms per Liter	m and/or p-Xylene	Less Than 0.50	Micrograms per Liter
IsopropylbenzeneLess Than0.50Micrograms per Liter1,2,3-TrichloropropaneLess Than0.50Micrograms per Liter1,1,2,2-TetrachloroethaneLess Than0.50Micrograms per Liter1,3-DichlorobenzeneLess Than0.50Micrograms per Liter	Styrene	Less Than 0.50	Micrograms per Liter
1,2,3-TrichloropropaneLess Than0.50Micrograms per Liter1,1,2,2-TetrachloroethaneLess Than0.50Micrograms per Liter1,3-DichlorobenzeneLess Than0.50Micrograms per Liter	Bromoform	Less Than 0.50	Micrograms per Liter
1,1,2,2-TetrachloroethaneLess Than0.50Micrograms per Liter1,3-DichlorobenzeneLess Than0.50Micrograms per Liter	Isopropylbenzene	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene Less Than 0.50 Micrograms per Liter	1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
	1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
1,4-Dichlorobenzene Less Than 0.50 Micrograms per Liter	1,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
	1,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-06 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

US Environmental Protection Agency Region 7 11201 Renner Blvd Lenexa, KS 66219

7/28/2023

Sample: 2300214-07

Project Name: White Farm Equipment Company

These are the results from the analysis of Water sample number 2300214-07. This sample was collected on 6/28/2023 at the location described as: MW5A (40'-50'). If you have any questions about these results, contact Welsey March at the above address or by calling (913) 551-7037. Correspondence should refer to sample number 2300214-07 for project: White Farm Equipment Company.

Analysis / Analyte	Amount Found	Units
Contract SOW-Inorganic		
Mercury	Less Than 0.200	Micrograms per Liter
Arsenic	4.90	Micrograms per Liter
Barium	130	Micrograms per Liter
Cadmium	Less Than 1.00	Micrograms per Liter
Chromium	Less Than 2.00	Micrograms per Liter
Lead	Less Than 1.00	Micrograms per Liter
Selenium	Less Than 5.00	Micrograms per Liter
Silver	Less Than 1.00	Micrograms per Liter
Contract SOW-SemiVolatiles		
Naphthalene	Less Than 0.050	Micrograms per Liter
1-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
2-Methylnaphthalene	Less Than 0.050	Micrograms per Liter
Acenaphthylene	Less Than 0.050	Micrograms per Liter
Acenaphthene	Less Than 0.050	Micrograms per Liter
Fluorene	Less Than 0.050	Micrograms per Liter
Pentachlorophenol	Less Than 0.20	Micrograms per Liter
Phenanthrene	Less Than 0.050	Micrograms per Liter
Anthracene	Less Than 0.050	Micrograms per Liter
Fluoranthene	Less Than 0.050	Micrograms per Liter
Pyrene	Less Than 0.050	Micrograms per Liter
Benzo(a)anthracene	Less Than 0.050	Micrograms per Liter
Chrysene	Less Than 0.050	Micrograms per Liter
Benzo(b)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(k)fluoranthene	Less Than 0.050	Micrograms per Liter
Benzo(a)pyrene	Less Than 0.050	Micrograms per Liter
Indeno(1,2,3-cd)pyrene	Less Than 0.050	Micrograms per Liter
Dibenz(a,h)anthracene	Less Than 0.050	Micrograms per Liter
Benzo(g,h,i)perylene	Less Than 0.050	Micrograms per Liter
Contract SOW-Volatiles		
Dichlorodifluoromethane	Less Than 0.50	Micrograms per Liter
Chloromethane	Less Than 0.50	Micrograms per Liter
Vinyl Chloride	Less Than 0.50	Micrograms per Liter

Sample: 2300214-07 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
Bromomethane	Less Than 0.50	Micrograms per Liter
Chloroethane	Less Than 0.50	Micrograms per Liter
Trichlorofluoromethane	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 0.50	Micrograms per Liter
Acetone	Less Than 5.0	Micrograms per Liter
Carbon Disulfide	Less Than 0.50	Micrograms per Liter
Methyl Acetate	Less Than 0.50	Micrograms per Liter
Methylene Chloride	Less Than 0.50	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
Methyl tert-butyl ether	Less Than 0.50	Micrograms per Liter
1,1-Dichloroethane	Less Than 0.50	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 0.50	Micrograms per Liter
2-Butanone	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 0.50	Micrograms per Liter
Chloroform	Less Than 0.50	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 0.50	Micrograms per Liter
Cyclohexane	Less Than 0.50	Micrograms per Liter
Carbon Tetrachloride	Less Than 0.50	Micrograms per Liter
Benzene	Less Than 0.50	Micrograms per Liter
1,2-Dichloroethane	Less Than 0.50	Micrograms per Liter
Trichloroethene	Less Than 0.50	Micrograms per Liter
Methylcyclohexane	Less Than 0.50	Micrograms per Liter
1,2-Dichloropropane	Less Than 0.50	Micrograms per Liter
Bromodichloromethane	Less Than 0.50	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 0.50	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 0.50	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 0.50	Micrograms per Liter
Tetrachloroethene	Less Than 0.50	Micrograms per Liter
2-Hexanone	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 0.50	Micrograms per Liter
1,2-Dibromoethane	Less Than 0.50	Micrograms per Liter
Chlorobenzene	Less Than 0.50	Micrograms per Liter
Ethyl Benzene	Less Than 0.50	Micrograms per Liter
o-Xylene	Less Than 0.50	Micrograms per Liter
m and/or p-Xylene	Less Than 0.50	Micrograms per Liter
Styrene	Less Than 0.50	Micrograms per Liter
Bromoform	Less Than 0.50	Micrograms per Liter
Isopropylbenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichloropropane	Less Than 0.50	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 0.50	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 0.50	Micrograms per Liter

Sample: 2300214-07 (Continued)

Analysis / Analyte	Amount Found	Units
Contract SOW-Volatiles (Continued)		
1,2-Dichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 0.50	Micrograms per Liter
1,2,4-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,3,5-Trimethylbenzene	Less Than 0.50	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 0.50	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 0.50	Micrograms per Liter

APPENDIX E- INTERVIEW RECORD

INTERVIEW RECORD			
Site Name: White Farm Equipment		EPA ID No.: IAD065210734	
Subject: Five Year Review		Time: 12 p.m.	Date: 12/7/2023
Type: □ In Person □ Telephone ⊠ Email □ Other: Click or tap here to enter text.			
Location: □ Site ⋈ Work/Office □ Home □ Other: Click or tap here to enter text.			
Contact Made By:			
Name: Wesley March	Title: Remedial Project Manager	Organization: EPA Region 7	
Individual Contacted:			
Name: Shelly Nellesen	Title: Env. Sp. Sr.	Organization: Iowa	DNR
Telephone No: 515-669-5494			
E-Mail Address: shelly.nellesen@dnr.iowa.gov			
Street Address: Wallace State Office Bldg, 502 E 9 th St. City, State, Zip: Des Moines, IA 50319-0034			
Summary of Conversation			
1. What is your overall impression of the project (general sentiment)?			
Although contamination remains onsite, the risks are mainly handled with an EC. There may be some question of future monitoring requirements at the site. In my time as the Iowa DNR Project Manager, there have been no complaints or safety concerns raised.			
2. What effects have the site operations had on the surrounding community?			
None to my knowledge.			
3. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.			
No			
4. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency response from local authorities? If so, please give details. No.			
5. Do you feel well-informed about the site's activities and progress?			
This site is newly assigned to me. However, I have had quarterly meetings with EPA that included discussion of White Farm Equipment. I do feel well-informed about activities and progress.			
6. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?			
From past meetings with EPA, it would seem that the regulatory future management of the site needs to be discussed between the State and the EPA.			
7. Any other general comments? No.			

IF

APPENDIX F— FIGURES

Appendix F Figures White Farm Equipment Co Dump 6th Five Year Review

Figure 1 - Site Location



Appendix F Figures White Farm Equipment Co Dump 6th Five Year Review

Figure 2 – 2023 Monitoring Well Locations

