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

Prepared by

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Date

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I. INTRODUCTION

The purpose of a Five-Year Review, or FYR, is to evaluate the implementation and performance of a remedy in order to determine whether the 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 fifth 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 due to the fact that hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unlimited use and unrestricted exposure, or UU/UE.

The Site consists of one operable unit, or OU, that will be addressed in this FYR.

The White Farm Equipment Co. Dump Superfund Site FYR was led by Elizabeth Hagenmaier, EPA. Participants included Jonathan Meyer, Pam Houston, Kelly Schumacher, Dan Nicoski, and Catherine Wooster-Brown, EPA; and Hylton Jackson, Iowa Department of Natural Resources, or IDNR. The review began on 5/10/2018.

Site Background

The Site is located along the northern edge of the city 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 to the 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 Farm Equipment Co. Dump		
EPA ID: IAD065210734		
Region: 7	**State:** IA	**City/County:** Charles City/Floyd County
SITE STATUS		
NPL Status: Deleted		
Multiple OUs? No	**Has the site achieved construction completion?** Yes	
REVIEW STATUS		
Lead agency: EPA *[If "Other Federal Agency", enter Agency name]*:		
Author name (Federal or State Project Manager): Elizabeth Hagenmaier		
Author affiliation: EPA		
Review period: 5/10/2018 – 12/18/2018		
Date of site inspection: 5/16/2018		
Type of review: Statutory		
Review number: 5		
Triggering action date: 6/19/2014		
Due date *(five years after triggering action date)*: 6/19/2019		

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 groundwater and lead in the soil and landfill material. The risk assessment identified ingestion of groundwater and direct contact with landfill material as exposure pathways which posed unacceptable risks at the Site.

Response Actions

In 1984, 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 groundwater at a depth of five to 10 feet below ground surface. The Site was added to the National Priorities List, or NPL, in 1990.

The remedial investigation, or RI; 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, or ROD, was signed on September 28, 1990, that specified the remedy that included upgrading the landfill, installation of additional groundwater monitoring wells, extraction and treatment of groundwater, and long-term maintenance and monitoring. Additional groundwater sampling conducted as part of the remedial design indicated that there was no groundwater contamination above the groundwater performance criteria at the point of compliance. Therefore, the groundwater treatment and extraction was not implemented. An Explanation of Significant Differences, or ESD, was signed in 1992 which modified the type of cap, revised the cap construction time frame, and clarified the groundwater 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 State of Iowa solid waste landfill closure requirements;
- Long-term groundwater monitoring; and
- Performing operation and maintenance, or O&M, 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 groundwater; and
- Restore contaminated groundwater 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
Groundwater	Benzene	1 µg/L
	Lead	15 µg/L*
	Cadmium	5 µg/L
	Chromium	100 µg/L

*Action level for lead changed from 50 micrograms per liter, or µg/L, to 15 µg/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, 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, 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
Groundwater	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 runoff 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

Operation and maintenance, or 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 completion of the remedial action construction and included the inspection of the following items: final cover, groundwater monitoring wells, drainage facilities, storm water retention areas, access road, perimeter fencing, signs and gates.

Under the O&M Plan, groundwater 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 last FYR as well as the recommendations from the last FYR and the current status of those recommendations.

Table 3: Protectiveness Determinations/Statements from the 2014 FYR

OU #	Protectiveness Determination	Protectiveness Statement
Sitewide	Protective	The remedy at the White Farm Equipment site is protective of human health and the environment.

Table 4: Status of Recommendations from the 2014 FYR

OU #	Issue	Recommendations	Current Status	Current Implementation Status Description	Completion Date (if applicable)
Sitewide	Damage to protective casing and missing well cap on Monitoring Well WFE-5B	Repair protective casing and well cap on WFE-5B to prevent potential vandalism	Completed	Well cap was replaced and locked following May 2018 sampling.	5/15/2018

Sitewide	Destruction to protective casing and riser on Monitoring Well-6A	Abandon Monitoring Well WFE-6A	Addressed in Next FYR	Ongoing clarifications with IDNR on lead responsibility for this action.	N/A
Sitewide	Missing hazardous chemical warning signs	Post hazardous chemical warning signs at site boundary	Addressed in Next FYR	Ongoing clarifications with IDNR on lead responsibility for this action.	N/A
Sitewide	Limited groundwater and ecological sampling	Perform limited sampling by direct-push technology for groundwater and limited surface water and sediment sampling. Perform sampling by use of in-house resources starting in October 2014.	Completed	Sampling was completed in a field event on 5/14-5/15/2018.	5/15/2018

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 June 15, 2018, stating that a FYR was being conducted and inviting the public to submit any comments to the EPA. The results of the review and the report will be made available at the Site information repository located at www.epa.gov/superfund/whitefarmequipment.

No Site interviews were conducted for the fifth FYR.

Data Review

Groundwater monitoring was completed in support of this FYR. Previous groundwater monitoring occurred in June 1999, May 2004, and December 2008. As identified in the 2014 FYR, groundwater sampling was conducted via direct-push technology, or DPT, and sediment and surface water sampling was conducted in support of this FYR.

Groundwater Monitoring

Groundwater samples were collected in May 2018 (see sampling location map in Appendix A) from three of the six existing monitoring wells (WFE-5A, WFE-5B, and WFE-6B). Groundwater samples were also collected from four discrete locations with four depth intervals: 6-10 feet, 16-20 feet, 29-33 feet, and 42-46 feet. Two additional groundwater samples were collected in close proximity to the unsampled wells (WFE-6A and WFE-5B) at the intervals that the monitoring wells were screened: 16-20 feet for WFE-5B and 42-46 feet for WFE-6A. All sampling locations were on the west boundary of

the Site, across Kellogg Street, and hydraulically downgradient from the landfill area (see sampling location map in Appendix A). These groundwater 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, or VOCs, including benzene. Ceramic bailers were used to purge and sample the monitoring wells, and DPT was used for the direct-push locations. Groundwater samples were filtered in the field; and groundwater, surface water, and sediment samples were preserved and containerized in accordance with the Quality Assurance Project Plan.

Table 5 presents the results of the groundwater samples collected for the first, second, third, and current FYRs as well as the groundwater cleanup levels. As has been seen in previous groundwater sampling events from the groundwater monitoring well network, all COC, concentrations remain below Maximum Contaminant Levels, or MCLs, 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 groundwater cleanup levels except for chromium and lead in the field duplicate sample at DPT point #2 at a depth of 16-20 feet. These dissolved COCs were detected at concentrations of 104 µg/L and 23.7J µg/L, respectively. The concentrations of total chromium and total lead exceeded their respective MCLs in many of the DPT locations. The maximum total chromium was 196 µg/L at DPT point # 2 at a depth of 29-33 feet. The maximum total lead was 239 µg/L at DPT point # 3 at a depth of 29-33 feet.

Table 5. Monitoring Well Sampling Results

Monitoring Well	Analyte (ug/L)															
	Benzene				Cadmium				Chromium				Lead			
	1999	2004	2008	2018	1999	2004	2008	2018	1999	2004	2008	2018	1999	2004	2008	2018
WFE-5A	1.0 U	1.0 U	0.5 U	5.0 U	0.44 U	3.0 U	1.00 UJ	5.0 U	0.88 Bu	15.0 U	2.0 U	10.0 U	1.9 U	50.0 U	1.0 U	10.0 U
WFE-5B	1.0 U	1.0 U	NS	5.0 U	0.44 U	3.0 U	NS	5.0 U	0.97 Bu	15.0 U	NS	10.0 U	1.9 U	50.0 U	NS	10.0 U
WFE-6A	1.0 U	1.0 U	NS	NS	0.44 U	3.0 U	NS	NS	0.88 Bu	15.0 U	NS	NS	1.9 U	50.0 U	NS	NS
WFE-6B	1.0 U	NS	0.5 U	5.0 U	0.44 U	NS	1.00 UJ	5.0 U	0.96 Bu	NS	2.0 U	10.0 U	1.9 U	NS	1.0 U	10.0 U
WFE-7A	1.0 U	NS	0.5 U	NS	0.44 U	NS	1.00 UJ	NS	0.88 Bu	NS	2.04	NS	1.9 U	NS	1.12	NS
WFE-7B	1.0 U	NS	0.5 U	NS	0.44 U	NS	3.1	NS	1.1 Bu	NS	2.0 U	NS	1.9 U	NS	1.0 U	NS
Performance Standard	1.0				5.0				100.0				50.0			

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 federal Maximum Contaminant Level, or MCL, 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.
NS – No samples were collected. In 2018 sampling event, well WFE-6A is completely destroyed and was not located. WFE-7A and WFE 7-B were surrounded by deep wetlands and could not be sampled.
B – The result is estimated. The analyte is between the Instrument Detection Limit and the Contract Required Quantitation Limit.
u – 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.

No volatile organic compounds were detected during this latest sampling event. Due to the variance of sampling results between the Site groundwater monitoring wells and the May 2018 DPT data, it is recommended that the future groundwater monitoring network be evaluated by the EPA and IDNR. Changes may be required to monitor the potential off-site groundwater migration.

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 groundwater flow of the upper aquifer. Site groundwater 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 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.

Sediment and Surface Water

Surface water and sediment samples were collected from the off-site wetlands to the northwest and south (see sampling location map in Appendix A). Surface water was analyzed for total and dissolved metals and VOCs. Sediment samples were analyzed for metals and VOCs. Levels detected in sediment and surface water do not pose unacceptable risks to human health, based on comparison with the EPA's 2018 Regional Screening Levels. At this time, aquatic life are not at risk from the levels of contaminants in the surface water of the wetlands. As seen in the data presented in Appendix E, acetone was detected in sediment at concentrations greater than the ecological screening level, or ESL, in all four samples, with Site 1 having the highest concentration at 440 milligrams/kilogram, or µg/kg (ESL is 40 µg/kg, hazard quotient=11). However, acetone at the Site was not an original contaminant of potential concern, therefore the elevated acetone levels may be from laboratory contamination. Another round of sediment samples in the wetland area will be collected for total and dissolved metals and VOCs before the next FYR in 2024.

Site Inspection

The inspection of the Site was conducted on 5/16/2018. In attendance were Elizabeth Hagenmaier, EPA, Hylton Jackson, IDNR, and Matt Ross, the property owner. 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 groundwater 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. The central area volunteer trees noted in the 2014 FYR report have since been removed by the property owner. The perimeter fence and gates were in good condition and

"No Trespassing" signs were present and legible. The property owner has been haying the property for a few years and plans to continue that use.

As noted in the 2014 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. No visible remnants could be located. Monitoring well WFE-5B was missing the well casing locking cover. The PVC riser cap and lock were replaced the previous day after sampling of the well. The monitoring wells located south of the Site, WFE-7A and 7B, were not able to be inspected due to high water conditions. Both well casing locking covers were intact, and no visual damage could be seen. Based on the review of aerial photography over time, it appears that these wells are consistently surrounded by water. The parcel that these wells reside in is owned by the city of Charles City, Iowa. Based on the distance of these wells from the road and difficulty in accessing the wells, it is unlikely substantial damage or vandalism would have occurred at the wells. Wells WFE-5A and 6B were observed to be in good condition.

V. TECHNICAL ASSESSMENT

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

Question A Summary:

The ROD, as modified by the ESD, included capping and grading of the landfill material to reduce runoff, erosion and minimize infiltration. Monitoring wells were installed for groundwater sample collection during FYRs, but most recently have been sampled every ten years. Operation and maintenance of the landfill cover and fencing is conducted periodically. The site inspection indicated the landfill cover was in good condition. The cap and ICs appear to have achieved the RAOs.

The inspection showed that the landfill cover and fencing are in good condition and that warning signs are in place. An environmental covenant is in place to prohibit excavation or disturbance of the cap, except for minor necessary excavations as discussed in Section II. Thus, exposures to landfill materials in soil by human receptors is considered an incomplete exposure pathway via ingestion, dermal contact, and inhalation.

The remedy calls for groundwater 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. The environmental covenant prevents complete exposure pathways to site groundwater via ingestion, dermal contact, or inhalation. As has been seen in previous groundwater sampling events from the existing groundwater monitoring well network, all COC concentrations remain below MCLs for those wells sampled for both total and dissolved phases.

Based on the recommendation of the 2014 FYR, a DPT sampling event was conducted downgradient of the site boundary to confirm the established monitoring well results. As presented in Appendix E, for total chromium and total lead, the COC concentrations exceeded their respective MCLs in many of the DPT locations. These results are different than the monitoring well results and are attributed to the fine grain aquifer material and the fundamentally different sample collection methodology (grab sample versus existing well). The dissolved phases COC concentration results, however, were more consistent with the monitoring well results. With the exception of a field duplicate sample at DPT point #2 at a depth of 16-20 feet, dissolved COC concentrations were below MCLs. For the duplicate event, dissolved

COCs were detected at concentrations of 104 µg/L and 23.7J µg/L, respectively. Due to the high COC results in the duplicate sample, an additional DPT sampling event is recommended to provide a more robust data set. These results should be compared with this DPT analysis and be used to determine the efficacy of the monitoring well network and whether the groundwater RAO continues to be met. The remedy is functioning as intended to prevent human exposure to contamination in site groundwater because a private well survey demonstrated that no drinking water wells are in use in areas that may be impacted by the contamination. However, because the exceedances are outside the area included in the environmental covenant, continued private well surveys, groundwater monitoring and analysis of the need for additional monitoring locations is warranted to evaluate potential off-site migration and effectiveness of the existing network.

Per the 2014 FYR, it was recommended that surface water and sediment samples be collected to confirm no impacts to the surrounding surface water bodies. As seen in the data presented in Appendix E, acetone was detected in sediment at concentrations greater than the ESLs in all four samples, with Site 1 having the highest concentration at 440 µg/kg (ESL is 40 µg/kg, hazard quotient=11). However, acetone at the Site was not an original COPC, therefore, the elevated acetone levels may be from laboratory contamination. Another round of sediment samples in the wetland area will be collected to determine if there is contaminant transport off-site via surface water runoff.

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

Question B Summary:

Changes in Standards and TBCs

For soil, contaminant-specific cleanup goals were not established. Instead, the remedy called for a landfill cover to prevent exposure to landfill materials.

For groundwater, the lower of federal drinking water standards or groundwater action levels based on the Iowa Administrative Code were identified as cleanup goals. Specifically, the cleanup level of 1 µg/L benzene was from the Iowa Administrative Code and is lower than the current federal MCL of 5 µg/L. The action level for lead was 50 µg/L, which exceeds the current level of 15 µg/L. The action levels for cadmium (5 µg/L) and chromium (100 µg/L) reflect the current MCLs. Groundwater samples collected in May 2018 were compared with current MCLs, or when MCLs are not available, with current EPA Regional Screening Levels for tap water to evaluate potential exceedances. As discussed under Question A, some detections of chromium and lead exceed current MCLs. The concentration of lead exceeds the current MCL, but not the action level in place when the remedy was established.

Changes in Toxicity and Other Contaminant Characteristics

The human health risk assessment for this Site was conducted in 1990. Over the last 28 years, significant changes in contaminant toxicity values have occurred. For example, the primary COC in groundwater, benzene, was evaluated using an oral cancer slope factor of 2.9E-02 $(mg/kg\text{-}day)^{-1}$, compared to today's value of 5.5E-02 $(mg/kg\text{-}day)^{-1}$. However, human risks associated with exposure to soil were addressed by capping the entire landfill, preventing exposures. Similarly, risks from exposure to groundwater were primarily addressed via controls prohibiting use.

To evaluate whether additional chemicals would be considered COCs, the maximum concentrations detected in soil and groundwater as reported in the Remedial Investigation were compared with current MCLs and risk-based values. For groundwater, the EPA found that historical detections of benzene, naphthalene, iron (nonfiltered only), manganese, and antimony (filtered only) exceeded current MCLs. For soil, only lead exceeded current risk-based screening levels.

Changes in Risk Assessment Methods

Significant changes in risk assessment methodology have occurred since the risk assessment was completed for the site. 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. However, human risks associated with exposure to lead in soil were addressed by capping the entire landfill, preventing exposures. Site groundwater monitoring should continue to be evaluated using current and the more stringent of federal or state MCLs and risk-based values to ensure the remedy remains protective.

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.

Ecological Risk Review

The 1990 Final Risk Assessment for the Site was not able to compare surface water to Aquatic Water Quality Criteria, or AWQC, because the ditch from the landfill to the wetland area was dry. Further, they were only able to collect two surface water samples in Hyers Creek downstream from the runoff convergence. But these two samples were collected shortly after a rainfall episode and did not necessarily represent runoff from the landfill, and were deemed unusable. Additionally, for the 1990 Risk Assessment, sediment was collected at ten locations and compared to twice the background concentrations rather than ESLs. Sediment samples from eight of the nine locations had at least one metal concentration which was greater than twice the background sample concentration. In conclusion, the 1990 Final Risk Assessment found a potential risk to ecological receptors and suggested collecting another round of surface water and sediment samples when water was standing.

In 2018, the EPA collected four surface water and four sediment samples from the wetland, and the results were compared to AWQC and ESLs. Some of the AWQC and ecological screening levels were below the detection limits. The EPA determined aquatic life are not at risk from the levels of contaminants in the surface water of the wetlands. Acetone in the sediment at Site 1 was the only concern; however, the elevated concentration could be due to laboratory practices. Therefore, EPA ecological risk assessors suggest collecting sediment samples in the wetland area before the next FYR in 2024.

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

A routine inspection performed by the EPA in May 2018 found the cover and perimeter fence and gates to be in good condition. The property owner has been haying the property for a few years and plans to

continue that use. The EPA is not aware of any additional information that could impact the protectiveness of the remedy at this time.

VI. ISSUES/RECOMMENDATIONS

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

OTHER FINDINGS

By the next FYR, there are several recommendations 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 groundwater 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 2024 to continue monitoring of Site COCs.
- Conduct direct-push along the west side of the site boundary similar to May 2018 sampling locations.
- Conduct direct-push in the proximity of Monitoring Wells WFE-7A and 7B.
- Discuss the option of abandoning Monitoring Wells WFE-7A and 7B due to ongoing access issues.
- Replace the locking well casing cap on Monitoring Well WFE-5B .

In addition, the following recommendations were made during the last FYR to improve management of O&M but have not been addressed. They should continue to be considered:

- Post hazardous chemical warning signs at the site boundaries.
- Abandon Monitoring Well WFE-6A.

VII. PROTECTIVENESS STATEMENT

Sitewide Protectiveness Statement	
Protectiveness Determination: Protective	*Planned Addendum Completion Date:* N/A
Protectiveness Statement: The remedy at the Site is protective of human health and 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.

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.

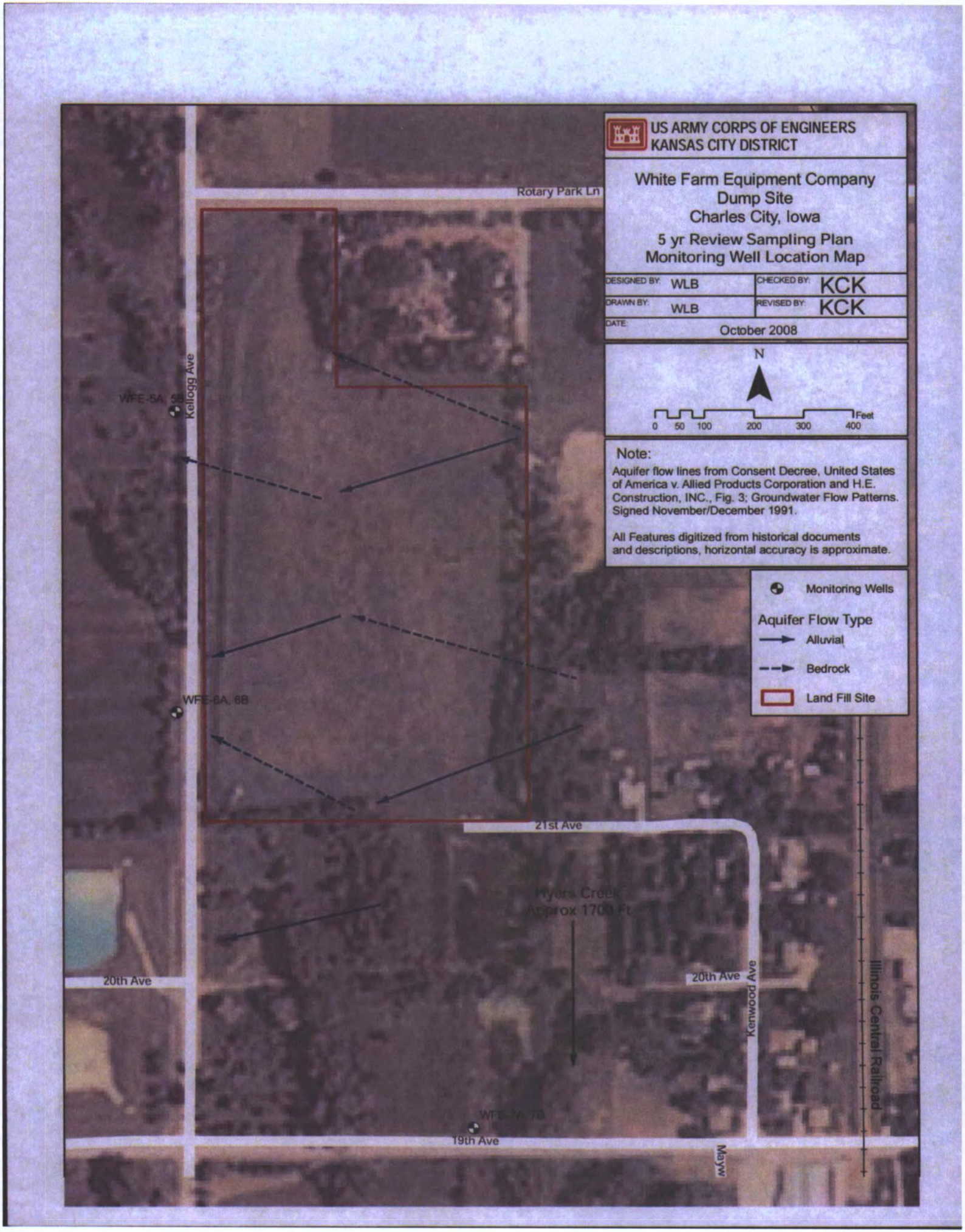
EPA. 1992. Explanation of Significant Differences, White Farm Equipment Co. Dump Site, Charles City, Iowa. U.S. Environmental Protection Agency Region 7. July 13, 1992.

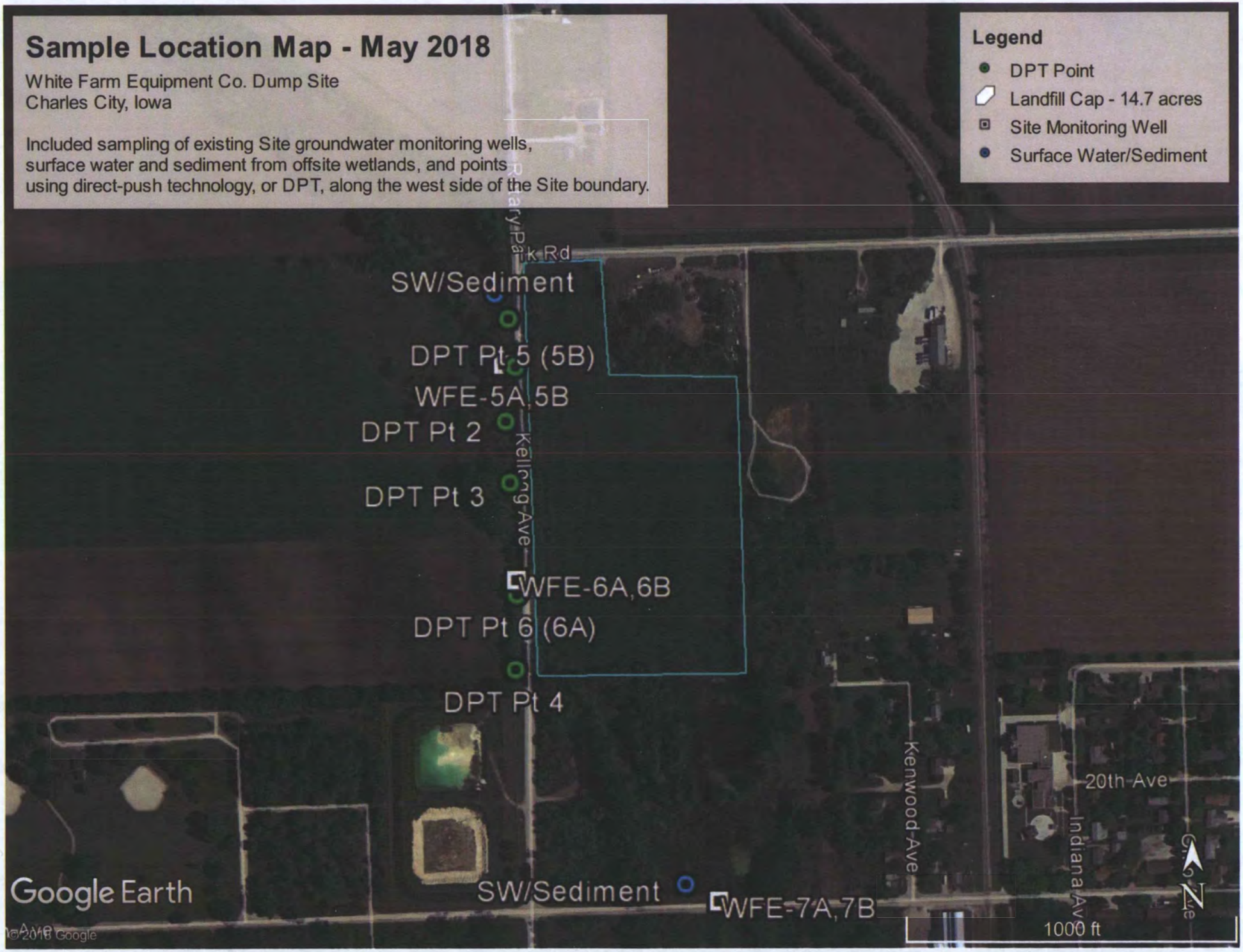
RMT Inc. 1995. Remedial Action Report for the White Farm Equipment Landfill, Charles City, Iowa. RMT Inc., Madison, Wisconsin. July 1995.

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. 2014. Final Fourth Five-Year Review Report, White Farm Equipment Co. Dump Site, Charles City, Floyd County, Iowa. United States Environmental Protection Agency Region 7, Lenexa, Kansas. June 19, 2014.

APPENDIX A – SITE MAPS


US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
White Farm Equipment Company
Dump Site
Charles City, Iowa
5 yr Review Sampling Plan
Monitoring Well Location Map
DESIGNED BY: WLB
CHECKED BY: KCK
DRAWN BY: WLB
REVISED BY: KCK
DATE: October 2008
N
0 50 100 200 300 400 Feet
Note:
Aquifer flow lines from Consent Decree, United States of America v. Allied Products Corporation and H.E. Construction, INC., Fig. 3; Groundwater Flow Patterns. Signed November/December 1991.
All Features digitized from historical documents and descriptions, horizontal accuracy is approximate.
Monitoring Wells
Aquifer Flow Type
Alluvial
Bedrock
Land Fill Site
Rotary Park Ln
Kellogg Ave
WFE-5A, 5B
WFE-6A, 6B
21st Ave
Myers Creek
Approx 1700 Ft
20th Ave
20th Ave
Kenwood Ave
Illinois Central Railroad
19th Ave
Mayw


Sample Location Map - May 2018
White Farm Equipment Co. Dump Site
Charles City, Iowa
Included sampling of existing Site groundwater monitoring wells, surface water and sediment from offsite wetlands, and points using direct-push technology, or DPT, along the west side of the Site boundary.
Legend
DPT Point
Landfill Cap - 14.7 acres
Site Monitoring Well
Surface Water/Sediment
Rabbit Park Rd
SW/Sediment
DPT Pt 5 (5B)
WFE-5A,5B
DPT Pt 2
DPT Pt 3
Kellogg Ave
WFE-6A,6B
DPT Pt 6 (6A)
DPT Pt 4
Kenwood Ave
20th Ave
Indiana Ave
SW/Sediment
WFE-7A,7B
Google Earth
©2018 Google
1000 ft
N

APPENDIX B – SITE INSPECTION CHECKLIST

Five-Year Review Site Inspection Checklist

I. SITE INFORMATION	
Site name: White Farm Equipment Co. Dump	**Date of inspection:** 5/16/2018
Location and Region: Iowa/Region 7	**EPA ID:** IAD0625210734
Agency, office, or company leading the five-year review: EPA	**Weather/temperature:** Sunny/68 degrees F

Remedy Includes: (Check all that apply)

- ■ Landfill cover/containment
- ■ Access controls
- ■ Institutional controls
- ☐ Groundwater pump and treatment
- ☐ Surface water collection and treatment
- ☐ Other_____

_____

- ☐ Monitored natural attenuation
- ☐ Groundwater containment
- ☐ Vertical barrier walls

Attachments: ■ Inspection team roster attached ☐ Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** _____ _____ _____
   Name Title Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____
   _____

2. **O&M staff** _____ _____ _____
   Name Title Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____
   _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency ____IDNR_____
Contact ____Hylton Jackson_____ ____Project Manager___ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐ Report attached _____
_____

4. **Other interviews** (optional) ☐ Report attached.

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Documents**
   - ☐ O&M manual — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ As-built drawings — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ Maintenance logs — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks There are no facilities at the Site, so no O&M documents are available on-site.

2. **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

3. **O&M and OSHA Training Records** — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

4. **Permits and Service Agreements**
   - ☐ Air discharge permit — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ Effluent discharge — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ Waste disposal, POTW — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ Other permits _____ — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

5. **Gas Generation Records** — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

6. **Settlement Monument Records** — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

7. **Groundwater Monitoring Records** — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

8. **Leachate Extraction Records** — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

9. **Discharge Compliance Records**
   - ☐ Air — ☐ Readily available — ☐ Up to date — ■ N/A
   - ☐ Water (effluent) — ☐ Readily available — ☐ Up to date — ■ N/A

   Remarks

10. **Daily Access/Security Logs** — ☐ Readily available — ☐ Up to date — ■ N/A

    Remarks

IV. O&M COSTS

1. **O&M Organization**

☐ State in-house ☐ Contractor for State
☐ PRP in-house ☐ Contractor for PRP
☐ Federal Facility in-house ☐ Contractor for Federal Facility
■ Other PRP is bankrupt. Responsibility of O&M activities is not clear except the care of the landfill property is managed under the environmental covenant by the property owner.

2. **O&M Cost Records**

☐ Readily available ☐ Up to date
☐ Funding mechanism/agreement in place
Original O&M cost estimate_____ ☐ Breakdown attached

Total annual cost by year for review period if available

From_____ To_____ _____ ☐ Breakdown attached
Date Date Total cost
From_____ To_____ _____ ☐ Breakdown attached
Date Date Total cost
From_____ To_____ _____ ☐ Breakdown attached
Date Date Total cost
From_____ To_____ _____ ☐ Breakdown attached
Date Date Total cost
From_____ To_____ _____ ☐ Breakdown attached
Date Date Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons: _____

V. ACCESS AND INSTITUTIONAL CONTROLS ■ Applicable ☐ N/A

A. Fencing

1. **Fencing damaged** ☐ Location shown on site map ■ Gates secured ☐ N/A
Remarks Fencing in good condition.

B. Other Access Restrictions

1. **Signs and other security measures** ☐ Location shown on site map ☐ N/A
Remarks No signs present.

C. Institutional Controls (ICs)

1. **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) Inspection of capped areas and access controls
Frequency Annual inspection by State of Iowa
Responsible party/agency EPA and IDNR
Contact _____ _____ _____ _____
Name Title Date Phone no.

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 documents have been met ☐ Yes ■ No ☐ N/A
Violations have been reported ☐ Yes ☐ No ■ N/A
Other problems or suggestions: ☐ Report attached

2. **Adequacy** ■ ICs are adequate ☐ ICs are inadequate ☐ N/A
Remarks

D. General

1. **Vandalism/trespassing** ☐ Location shown on site map ■ No vandalism evident
Remarks

2. **Land use changes on site** ☐ N/A
Remarks Owner harvests hay. No grazing.

3. **Land use changes off site** ■ N/A
Remarks

VI. GENERAL SITE CONDITIONS

A. Roads ■ Applicable ☐ N/A

1. **Roads damaged** ☐ Location shown on site map ■ Roads adequate ☐ N/A
Remarks

B. Other Site Conditions

Remarks _____

_____

_____

_____

_____

_____

VII. LANDFILL COVERS ■ Applicable □ N/A

A. Landfill Surface

1. **Settlement** (Low spots) □ Location shown on site map ■ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____
   _____

2. **Cracks** □ Location shown on site map ■ Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks_____
   _____

3. **Erosion** □ Location shown on site map ■ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____
   _____

4. **Holes** □ Location shown on site map ■ Holes not evident
   Areal extent_____ Depth_____
   Remarks_____
   _____

5. **Vegetative Cover** ■ Grass ■ Cover properly established ■ No signs of stress
   □ Trees/Shrubs (indicate size and locations on a diagram)
   Remarks_____
   _____

6. **Alternative Cover (armored rock, concrete, etc.)** ■ N/A
   Remarks_____
   _____

7. **Bulges** □ Location shown on site map ■ Bulges not evident
   Areal extent_____ Height_____
   Remarks_____
   _____

8. **Wet Areas/Water Damage** ■ Wet areas/water damage not evident
- ☐ Wet areas ☐ Location shown on site map Areal extent_____
- ☐ Ponding ☐ Location shown on site map Areal extent_____
- ☐ Seeps ☐ Location shown on site map Areal extent_____
- ☐ Soft subgrade ☐ Location shown on site map Areal extent_____

Remarks_____

9. **Slope Instability** ☐ Slides ☐ Location shown on site map ■ No evidence of slope instability
Areal extent_____
Remarks_____

B. Benches ☐ Applicable ■ 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_____

2. **Bench Breached** ☐ Location shown on site map ☐ N/A or okay
Remarks_____

3. **Bench Overtopped** ☐ Location shown on site map ☐ N/A or okay
Remarks_____

C. Letdown Channels ☐ Applicable ■ N/A
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down 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** ☐ Location shown on site map ☐ No evidence of settlement
Areal extent_____ Depth_____
Remarks_____

2. **Material Degradation** ☐ Location shown on site map ☐ No evidence of degradation
Material type_____ Areal extent_____
Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ No evidence of erosion
Areal extent_____ Depth_____
Remarks_____

4. **Undercutting** ☐ Location shown on site map ☐ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ ☐ No obstructions
☐ Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
☐ No evidence of excessive growth
☐ Vegetation in channels does not obstruct flow
☐ Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations ☐ Applicable ■ N/A

1. **Gas Vents** ☐ Active ☐ Passive
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance
☐ N/A
Remarks_____

2. **Gas Monitoring Probes**
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____

3. **Monitoring Wells** (within surface area of landfill)
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____

4. **Leachate Extraction Wells**
☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A
Remarks_____

5. **Settlement Monuments** ☐ Located ☐ Routinely surveyed ☐ N/A
Remarks_____

E. Gas Collection and Treatment ☐ Applicable ■ N/A

1. **Gas Treatment Facilities**
   ☐ Flaring ☐ Thermal destruction ☐ Collection for reuse
   ☐ Good condition ☐ Needs Maintenance
   Remarks_____

2. **Gas Collection Wells, Manifolds and Piping**
   ☐ Good condition ☐ Needs Maintenance
   Remarks_____

3. **Gas Monitoring Facilities** (*e.g.*, gas monitoring of adjacent homes or buildings)
   ☐ Good condition ☐ Needs Maintenance ☐ N/A
   Remarks_____

F. Cover Drainage Layer ☐ Applicable ■ N/A

1. **Outlet Pipes Inspected** ☐ Functioning ☐ N/A
   Remarks_____

2. **Outlet Rock Inspected** ☐ Functioning ☐ N/A
   Remarks_____

G. Detention/Sedimentation Ponds ■ Applicable ☐ N/A

1. **Siltation** Areal extent_____ Depth_____ ☐ N/A
   ■ Siltation not evident
   Remarks_____

2. **Erosion** Areal extent_____ Depth_____
   ■ Erosion not evident
   Remarks_____

3. **Outlet Works** ■ Functioning ☐ N/A
   Remarks_____

4. **Dam** ☐ Functioning ■ N/A
   Remarks_____

H. Retaining Walls ☐ Applicable ■ N/A

1. **Deformations** ☐ Location shown on site map ☐ Deformation not evident
   Horizontal displacement_____ Vertical displacement_____
   Rotational displacement_____
   Remarks_____

2. **Degradation** ☐ Location shown on site map ☐ Degradation not evident
   Remarks_____

I. Perimeter Ditches/Off-Site Discharge ■ Applicable ☐ N/A

1. **Siltation** ☐ Location shown on site map ■ Siltation not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Vegetative Growth** ☐ Location shown on site map ☐ N/A
   ■ Vegetation does not impede flow
   Areal extent_____ Type_____
   Remarks_____

3. **Erosion** ☐ Location shown on site map ■ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Discharge Structure** ■ Functioning ☐ N/A
   Remarks_____

VIII. VERTICAL BARRIER WALLS ☐ Applicable ■ N/A

1. **Settlement** ☐ Location shown on site map ☐ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Performance Monitoring** Type of monitoring_____
   ☐ Performance not monitored
   Frequency_____ ☐ Evidence of breaching
   Head differential_____
   Remarks_____

IX. GROUNDWATER/SURFACE WATER REMEDIES ■ Applicable ☐ N/A

A. Groundwater Extraction Wells, Pumps, and Pipelines ☐ Applicable ■ N/A

1. **Pumps, Wellhead Plumbing, and Electrical**
☐ Good condition☐ All required wells properly operating ☐ Needs Maintenance ☐ N/A
Remarks_____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition☐ Needs Maintenance
Remarks_____

3. **Spare Parts and Equipment**
☐ Readily available ☐ Good condition☐ Requires upgrade ☐ Needs to be provided
Remarks_____

B. Surface Water Collection Structures, Pumps, and Pipelines ☐ Applicable ■ N/A

1. **Collection Structures, Pumps, and Electrical**
☐ Good condition☐ Needs Maintenance
Remarks_____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition☐ Needs Maintenance
Remarks_____

3. **Spare Parts and Equipment**
☐ Readily available ☐ Good condition☐ Requires upgrade ☐ Needs to be provided
Remarks_____

C. Treatment System ☐ Applicable ■ N/A

1. **Treatment Train** (Check components that apply)
   ☐ Metals removal ☐ Oil/water separation ☐ Bioremediation
   ☐ Air stripping ☐ Carbon adsorbers
   ☐ Filters_____
   ☐ Additive (*e.g.*, chelation agent, flocculent)_____
   ☐ Others_____
   ☐ 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_____
   ☐ Quantity of surface water treated annually_____
   Remarks_____
   _____

2. **Electrical Enclosures and Panels** (properly rated and functional)
   ☐ N/A ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

3. **Tanks, Vaults, Storage Vessels**
   ☐ N/A ☐ Good condition☐ Proper secondary containment ☐ Needs Maintenance
   Remarks_____
   _____

4. **Discharge Structure and Appurtenances**
   ☐ N/A ☐ Good condition☐ Needs Maintenance
   Remarks_____
   _____

5. **Treatment Building(s)**
   ☐ N/A ☐ Good condition (esp. roof and doorways) ☐ Needs repair
   ☐ Chemicals and equipment properly stored
   Remarks_____
   _____

6. **Monitoring Wells** (pump and treatment remedy)
   ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
   ☐ All required wells located ☐ Needs Maintenance ☐ N/A
   Remarks_____
   _____

D. Monitoring Data

1. Monitoring Data
   ☐ Is routinely submitted on time ☐ Is of acceptable quality

2. Monitoring data suggests:
   ☐ Groundwater plume is effectively contained ☐ Contaminant concentrations are declining

D. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)

☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition
☐ All required wells located ■ Needs Maintenance ☐ N/A

Remarks: Wells WFE 7A and 7B were located within a deep marsh and could not be sampled or inspected. Well WFE 6A could not be located due to previous damage and water covered ditches impeded the search. Well WFE 5A had a missing well casing cap, as well as a missing well cap. The missing well casing cap was replaced and locked during sampling.

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

See report text.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

See report text.

C.	**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. See report text.

D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. See report text.

APPENDIX C – SITE INSPECTION PHOTOGRAPHS

SITE INSPECTION PHOTOGRAPHS

Photograph No.: 1	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing S	Time: 9:06AM	Five-Year Review
Description: North gate and entrance into landfill property. Lock was in place and intact.			

Photograph No.: 2	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing E	Time: 9:19AM	Five-Year Review
Description: View of landfill cover and perimeter fencing on Kellogg Avenue looking east.			

Photograph No.: 3	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing SE	Time: 9:33AM	Five-Year Review
Description: On south edge of repository cap slope looking into wetlands that are remnants of an oxbow lake.			

Photograph No.: 4	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing N	Time: 9:58AM	Five-Year Review
Description: Location of monitoring wells WFE-7A and WFE-7B within wetlands seen in Photograph #3.			

Photograph No.: 5	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing W	Time: 9:14AM	Five-Year Review
Description: Location of monitoring wells WFE-5A and WFE-5B. No well cover on WFE-5B.			

Photograph No.: 6	Photographer: Elizabeth Hagenmaier	Date: May 16, 2018	White Farm Equipment Co. Dump
	Direction: Facing W	Time: 9:18AM	Five-Year Review
Description: Location of monitoring wells WFE-6A and WFE-6B. Existing well is WFE-6B while WFE-6A was not located.			

APPENDIX D – 2009 ENVIRONMENTAL COVENANT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

OCT 1 3 2009

OVERNIGHT MAIL
via FED EX EXPRESS

Mr. Larry Stewart
Stewart Realty Co.
503 Kelly St.
Charles City, IA 50616

Re: Environmental Covenant to be filed with Floyd County, Iowa, Recorder
White Farm Equipment Company Dump Superfund Site

Dear Mr. Stewart,

I am sending you the original Environmental Covenant for the White Farm Equipment Company Dump Superfund Site that has been executed by all parties. I understand that you will assist your client and present owner of the site, Homer Blickenderfer, President of H.E. Construction Co., Inc., in filing this document with the Floyd County, Iowa, Recorder.

Please file all eleven pages of the Environmental Covenant, including the pages containing the original signatures, with the Floyd County Recorder. After the Environmental Covenant has been filed, please mails copies of the filed Environmental Covenant, including the cover page that contains the County Recorder's stamp, to the parties indicated in Paragraph 16 of the Environmental Covenant.

I appreciate your assistance and cooperation in filing this Environmental Covenant as soon as possible. If you have any questions, please contact me, Jonathan Meyer, at 913-551-7140, or Shelley Brodie, at 913-551-7706.

Sincerely,

Jonathan Meyer
Assistant Regional Counsel

Enclosure

077H 3.0

40449675

Superfund

OU-00

Document 2009-2881
Book 2009 Page 2881 Type 06 017 Pages 11
Date 10/16/2009 Time 8:26 AM
Rec Amt $59.00
INDX
CHCK
NOTE
DEBORAH K ROBERTS, COUNTY RECORDER
FLOYD COUNTY IOWA
SCAN
ODD

Type/Title of Document:	Environmental Covenant
Return Document to:	Jonathan Meyer Office of Regional Counsel USEPA, Region 7 501 N. 5th St. Kansas City, KS 66101 (913) 551-7140
Preparer Information:	Jonathan Meyer Office of Regional Counsel USEPA, Region 7 501 N. 5th St. Kansas City, KS 66101 (913) 551-7140
Taxpayer Information:	H.E. Construction, Inc. 3011 190th Street Charles City, IA 50616
Grantor(s):	H.E. Construction, Inc. 3011 190th Street Charles City, IA 50616
Holder/Grantee:	H.E. Construction, Inc. 3011 190th Street Charles City, IA 50616
Legal Description:	See Attachment 1

ENVIRONMENTAL COVENANT

This Environmental Covenant is entered into by and between H.E. Construction, Inc. ("H.E. Construction"), an Iowa Corporation, as both "Grantor" and "Holder" pursuant to the Iowa Uniform Environmental Covenants Act codified at Chapter 455I of the Iowa Code.

RECITALS

WHEREAS, H.E. Construction, whose mailing address is 3011 190th Street, Charles City, IA 50616, is the owner in fee simple of that real property legally described on Attachment 1 hereto, the "Property;"

WHEREAS, the White Farm Equipment Dump Superfund Site ("Site") is located on the Property, which the EPA, pursuant to Section 105 of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9605, placed on the National Priorities List ("NPL"), set forth at 40 C.F.R. Part 300, Appendix B, by publication in the Federal Register on August 30, 1990;

WHEREAS, on November 13, 1989, the Site was listed on the State of Iowa's Registry of Confirmed Hazardous Waste or Hazardous Substance Disposal Sites ("Iowa Registry") pursuant to Iowa Code § 455B.426 *et al*, which provides in pertinent part:

> a. A person shall not substantially change the manner in which a hazardous waste or hazardous substance disposal site on the registry…is used without the written approval of the director.
>
> b. A person shall not sell, convey, or transfer title to a hazardous waste or hazardous substance disposal site which is on the registry…without the written approval of the director. Iowa Code § 455B.430

A statement that the Site was listed on the Iowa Registry was filed in book 44, at page 390, in the Office of the Recorder of Deeds of Floyd County, Iowa;

WHEREAS, in a Record of Decision dated September 28, 1990, the EPA Region VII Regional Administrator selected a "remedial action" for the Site that consisted of installing a soil cover on landfill materials, fencing the perimeter of the site to restrict access to landfill materials, installation of a groundwater treatment system, and deed restrictions to limit future property use and well installation.

WHEREAS, Allied Products Corporation, H.E. Construction and the United States entered into a Consent Decree ("Consent Decree") pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601 *et seq.* In this Consent Decree, Allied Products Corporation agreed to conduct the "remedial action" selected in the ROD, in order to respond to the release or threat of release of hazardous substances into the environment on the Property. The remedial action is an "environmental response project," as defined in Iowa Code § 455I.2(5). This Consent Decree was styled "United States of America v. Allied Products Corporation and H.E. Construction, Inc." and was entered under Civil Action No. C92-2043, in the United States District Court for the

Northern District of Iowa, on July 14, 1992.

WHEREAS, a copy of the Administrative Record for the remedial action, including the Consent Decree, Record of Decision, Explanation of Significant Differences, and Five-Year Reviews, is located at the Charles City Public Library, 106 Milwaukee Mall, Charles City, Iowa 50616.

WHEREAS, pursuant to the Consent Decree, H.E. Construction agreed to, among other things, provide access to the Property to the United States Environmental Protection Agency ("EPA") for the purposes of implementing, facilitating, and monitoring the environmental response project required to be performed under the Consent Decree, and file a Restrictive Covenant that imposes activity and use limitations on the Property that would run with the Property and bind subsequent owners;

WHEREAS, on October 5, 1992, H.E. Construction filed a Restrictive Covenant in book 50, at page 453 and 454, in the Office of the Recorder of Deeds of Floyd County, Iowa;

WHEREAS, H.E. Construction and EPA agree that it is appropriate at this time to revoke, rescind, and terminate the Restrictive Covenant and supersede the Restrictive Covenant with this Environmental Covenant.

WHEREAS, H.E. Construction desires to grant to itself as Holder, as that term is defined in Iowa Code § 455I.2(7), this Environmental Covenant for the purpose of subjecting the Property to certain activity and use limitations as provided in the Iowa Uniform Environmental Covenants Act;

WHEREAS, as hazardous substances remain at the Property at levels which do not allow for unlimited use of, and unrestricted exposure at, the Property, H.E. Construction is subjecting the Property to the activity and use limitations contained herein;

NOW THEREFORE, H.E. Construction hereby states and declares as follows:

1. Parties: In addition to H.E. Construction, who is the owner of the Property and Holder hereunder, the EPA and the Iowa Department of Natural Resources ("IDNR") and any successor agency, is a party to this Environmental Covenant. EPA and IDNR are each an "Agency" hereunder as defined in Iowa Code § 455I.2(2), and may enforce this Environmental Covenant as provided in Iowa Code § 455I.11 and paragraph 4 below.

2. Activity and Use Limitations: The following activity and use limitations are hereby imposed on the Property:

a. The construction, installation, maintenance or use of any wells on the Property for the purpose of extracting water for human drinking purposes or for the irrigation of food or feed crops shall be prohibited;

b. The soil cap located on the Property shall be maintained in good repair in order to prevent direct contact with the landfill materials, reduce infiltration and leaching of contaminants and minimize run-off transport of contaminants;

c. The soil cap located on the Property 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;

c. The Property may not be used for any residential, commercial, recreational or agricultural purposes unless approved in advance in writing by the EPA or its assigns; and

e. 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.

3. Running with the Land: This Environmental Covenant shall be binding upon H.E. Construction and its successors, assigns, and Transferees in interest, and shall run with the land, as provided in Iowa Code § 455I.5(1), subject to amendment or termination as set forth herein. The term "Transferee," as used in this Environmental Covenant, shall mean any future owner of any interest in the Property or any portion thereof, including, but not limited to, owners of an interest in fee simple, mortgagees, easement holders, and/or lessees.

4. Enforcement: Compliance with this Environmental Covenant may be enforced as provided in Iowa Code § 455I.11. Failure to timely enforce compliance with this Environmental Covenant or the activity and use limitations contained herein by any party shall not bar subsequent enforcement by such party and shall not be deemed a waiver of the party's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict any person from exercising any authority under any other applicable law.

5. Notice of Non-Compliance: Grantor and any subsequent Transferee of the Property shall notify EPA as soon as possible of any conditions that would constitute a breach of the activity and use limitations specified above in Paragraph 2.

6. Rights of Access: Grantor grants to the Holder and to EPA and IDNR's agents, contractors, and employees, an irrevocable, permanent and continuing right of access at all reasonable times to the Property for implementation, monitoring or enforcement of this Environmental Covenant and the aforementioned Consent Decree. Nothing herein shall be deemed to limit or otherwise affect EPA's right of access and entry under federal law.

7. Notice of Proposed Conveyance: Grantor or its Transferee shall, at least 30 days prior to the conveyance of any interest in the Property or any portion thereof, give written notice to EPA of the proposed conveyance, including the name and address of the proposed Transferee, and the date on which the notice of the Consent Decree and this Environmental Covenant was given to the proposed Transferee, and that all of the provisions of the Consent Decree continue in full force and effect, notwithstanding any such transfer.

8. Groundwater Hazard Statement: Iowa Code § 558.69 requires submission of a groundwater hazard statement and notice if "hazardous waste," as defined in Iowa Code §§ 455B.411(3), 455B.412(2) or section 455B.464, is present on real property. If hazardous waste is present, the groundwater hazard statement must state that the condition is being managed in accordance with IDNR rules. Grantor and all subsequent Transferees required to submit a groundwater hazard statement under Iowa Code § 558.69 for the Property shall make reference to this Environmental Covenant in any instrument conveying an interest in the Property. The notice shall be substantially in the following form:

THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL COVENANT, DATED _____, 2009, RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF FLOYD COUNTY, IOWA, ON _____, 2009, AS DOCUMENT ____, BOOK ____, PAGE ____.

THE ENVIRONMENTAL COVENANT CONTAINS THE FOLLOWING ACTIVITY AND USE LIMITATIONS:

A. THE CONSTRUCTION, INSTALLATION, MAINTENANCE OR USE OF ANY WELLS ON THE PROPERTY FOR THE PURPOSE OF EXTRACTING WATER FOR HUMAN DRINKING PURPOSES OR FOR THE IRRIGATION OF FOOD OR FEED CROPS SHALL BE PROHIBITED;

B. THE SOIL CAP LOCATED ON THE PROPERTY SHALL BE MAINTAINED IN GOOD REPAIR IN ORDER TO PREVENT DIRECT CONTACT WITH THE LANDFILL MATERIALS, REDUCE INFILTRATION AND LEACHING OF CONTAMINANTS AND MINIMIZE RUN-OFF TRANSPORT OF CONTAMINANTS;

C. THE SOIL CAP LOCATED ON THE PROPERTY 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;

D. THE PROPERTY MAY NOT BE USED FOR ANY RESIDENTIAL OR AGRICULTURAL PURPOSES UNLESS APPROVED IN ADVANCE IN WRITING BY THE EPA OR ITS ASSIGNS; AND

E. 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.

9. Notice upon Conveyance: Grantor and any subsequent Transferee shall notify EPA within ten (10) days following each conveyance of an interest in the Property, or any portion thereof. The notice shall include the name, address, and telephone number of the Transferee, and a copy of the deed or other documentation evidencing the conveyance.

10. Representations and Warranties: Grantor hereby represents and warrants to EPA that Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all of Grantor's obligations hereunder, and that Grantor is the sole owner of the Property and holds fee simple title which is free, clear, and unencumbered.

11. Amendment or Termination: This Environmental Covenant may be amended or terminated by consent signed by EPA, IDNR and Grantor or its Transferee. Within thirty (30) days of signature by all requisite parties on any amendment or termination of this Environmental Covenant, Grantor or its Transferee shall file such instrument for recording with the Office of the Recorder of Deeds of Floyd County, Iowa, and shall provide a file- and date-stamped copy of the recorded instrument to EPA.

12. Severability: If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. Governing Law: This Environmental Covenant shall be governed by and interpreted in accordance with the laws of the State of Iowa.

14. Recordation: Within thirty (30) days after the date of the final required signature upon this Environmental Covenant, Grantor shall record this Environmental Covenant with the Office of the Recorder of Deeds of Floyd County, Iowa.

15. Effective Date: The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded as a deed record for the Property with the Office of the Recorder of Deeds of Floyd County, Iowa.

16. Distribution of Environmental Covenant: Within thirty (30) days following the reecording of this Environmental Covenant, Grantor shall, in accordance with Iowa Code § 455I.7, distribute a file- and date-stamped copy of the recorded Environmental Covenant to: (a) each signatory hereto; (b) each person holding a recorded interest in the Property; (c) each person in possession of the Property; (d) each municipality or other unit of local government in which the Property is located; and (e) any other person designated by EPA.

17. Notice to EPA: Any document, notice, or other item required by this Environmental Covenant to be given to EPA shall be sent to:

Superfund Division Director
U.S. Environmental Protection Agency, Region VII
901 North 5th Street
Kansas City, Kansas 66101

EPA may change the recipient title and address from time to time and will provide written notice to Holder or its Transferee of any such changes.

18. Termination of Declaration: It is the intention of the parties for this Environmental Covenant to supersede and take the place of the Restrictive Covenant referred to above. Accordingly, that Restrictive Covenant is hereby revoked, rescinded, and terminated.

The undersigned represents and certifies that he/she is authorized to execute this Environmental Covenant on behalf of Holder. EPA and IDNR.

IT IS SO AGREED:

GRANTOR:

FOR H.E. CONSTRUCTION, INC.,

By: Homer L Blickenderfer Date: 10/2/2009

Name (print): Homer L. Blickenderfer

Title: President

STATE OF Iowa)

COUNTY OF Floyd)

On this 2nd day of October, 2009, before me a Notary Public in and for said state, personally appeared Homer L. Blickenderfer [NAME], President [TITLE], of H.E. Construction, Inc., known to me to be the person who executed the within Environmental Covenant in behalf of said corporation and acknowledged to me that he/she executed the same for the purposes therein stated.

LARRY R. STEWART
Commission No.: 107620
My Commission Expires
9/20/2011

Larry R Stewart
Notary Public
LARRY R. STEWART

HOLDER:

FOR H.E. CONSTRUCTION, INC.,

By: Homer J Blickenderfer Date: 10/2/2009

Name (print): Homer L. Blickenderfer

Title: President

STATE OF Iowa)

COUNTY OF Floyd)

On this 2nd day of October, 2009, before me a Notary Public in and for said state, personally appeared Homer L. Blickenderfer [NAME], President [TITLE], of H.E. Construction, Inc., known to me to be the person who executed the within Environmental Covenant in behalf of said corporation and acknowledged to me that he/she executed the same for the purposes therein stated.

LARRY R. STEWART
Commission No.: 107620
My Commission Expires
9/20/2011

Larry R Stewart
Notary Public
Larry R. Stewart

AGENCY:

FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY

By: Cecilia Tapia Date: 10/6/09

Name (print): CECILIA TAPIA

Title: DIRECTOR, SUPERFUND DIVISION

STATE OF Kansas)

COUNTY OF Wyandotte)

On this 6th day of October, 2009, before me a Notary Public in and for said state, personally appeared Cecilia Tapia (or her designee), the Director of EPA Region VII's Superfund Division, known to me to be the person who executed the within Environmental Covenant in behalf of EPA and acknowledged to me that she executed the same for the purposes therein stated.

Notary Public

KENT JOHNSON
NOTARY PUBLIC
STATE OF KANSAS
My Appt Exp. 7/23/11

AGENCY:

FOR THE IOWA DEPARTMENT OF NATURAL RESOURCES

By: _____ Date: 10-8-09

Name (print): Richard Leopold

Title: Director

STATE OF Iowa)

COUNTY OF Polk)

On this 8th day of October, 2009, before me a Notary Public in and for said state, personally appeared the Director of the Iowa Department of Natural Resources or the lawful designee of the Director who executed the foregoing instrument, and acknowledge that this person executed the same for the purposes therein stated.

_____
Notary Public

NOTARIAL SEAL IOWA

LISA NISSEN
COMMISSION NO. 721371
MY COMMISSION EXPIRES
5-17-12

ATTACHMENT 1

Legal Description

The West One-half (W1/2) of the Southwest quarter (SW1/4) of the Southeast quarter (SE1/4) of Section Thirty-six (36), Township Ninety-six North (96N), Range Sixteen West (16W) of the 5th P.M., excepting Twenty-three hundredths (.23) acres for the highway, and also excepting therefrom a parcel of land described as follows: Commencing at a point Two hundred seventy-two and four tenths feet East (272.4'E) of the Northwest (NW) corner of the Southwest quarter (SW1/4) of the Southeast quarter (SE1/4) of Section Thirty-six (36), Township Ninety-six North (96N), Range Sixteen (16), thence South Three Hundred seventy feet (S370') at a right angle to the quarter-quarter line, thence East (E) parallel to the quarter-quarter line, a distance of Three hundred ninety-five feet (395'); thence North Three hundred seventy feet (N370') to the quarter-quarter line; thence West Three hundred ninety five feet (W395') to the point of beginning, in Floyd County, Iowa.

APPENDIX E – ANALYTICAL REPORT – MAY 2018

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

06/15/2018

Results of Sample Analysis

Sample: 7853-1
Project ID: EH077H00

These are the results from the analysis of solid sample number 7853-1. This sample was collected on 05/15/2018 at the location described as: Sample location #1 - Wetlands (sediment). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-1 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Soil by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	3.8	Milligrams per Kilogram
Barium	57.0	Milligrams per Kilogram
Cadmium	1.2	Milligrams per Kilogram
Chromium	Approximately 15.7	Milligrams per Kilogram
Lead	107	Milligrams per Kilogram
Selenium	Less Than 6.4	Milligrams per Kilogram
Silver	Less Than 1.8	Milligrams per Kilogram
Volatile Organic Compounds in Soil at Low Levels by Closed-System Purge-and-Trap GC/MS.		
Acetone	440	Micrograms per Kilogram
Benzene	Less Than 16	Micrograms per Kilogram
Bromochloromethane	Less Than 16	Micrograms per Kilogram
Bromodichloromethane	Less Than 16	Micrograms per Kilogram
Bromoform	Less Than 16	Micrograms per Kilogram
Bromomethane	Less Than 16	Micrograms per Kilogram
2-Butanone	83	Micrograms per Kilogram
Carbon Disulfide	Less Than 16	Micrograms per Kilogram
Carbon Tetrachloride	Less Than 16	Micrograms per Kilogram
Chlorobenzene	Less Than 16	Micrograms per Kilogram
Chloroethane	Less Than 16	Micrograms per Kilogram
Chloroform	Less Than 16	Micrograms per Kilogram
Chloromethane	Less Than 16	Micrograms per Kilogram
Cyclohexane	Less Than 16	Micrograms per Kilogram
1,2-Dibromo-3-Chloropropane	Less Than 16	Micrograms per Kilogram

Sample: 7853-1
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Dibromochloromethane	Less Than 16	Micrograms per Kilogram
1,2-Dibromoethane	Less Than 16	Micrograms per Kilogram
1,2-Dichlorobenzene	Less Than 16	Micrograms per Kilogram
1,3-Dichlorobenzene	Less Than 16	Micrograms per Kilogram
1,4-Dichlorobenzene	Less Than 16	Micrograms per Kilogram
Dichlorodifluoromethane	Less Than 16	Micrograms per Kilogram
1,1-Dichloroethane	Less Than 16	Micrograms per Kilogram
1,2-Dichloroethane	Less Than 16	Micrograms per Kilogram
1,1-Dichloroethene	Less Than 16	Micrograms per Kilogram
cis-1,2-Dichloroethene	Less Than 16	Micrograms per Kilogram
trans-1,2-Dichloroethene	Less Than 16	Micrograms per Kilogram
1,2-Dichloropropane	Less Than 16	Micrograms per Kilogram
cis-1,3-Dichloropropene	Less Than 16	Micrograms per Kilogram
trans-1,3-Dichloropropene	Less Than 16	Micrograms per Kilogram
Ethyl Benzene	Less Than 16	Micrograms per Kilogram
2-Hexanone	Less Than 32	Micrograms per Kilogram
Isopropylbenzene	Less Than 16	Micrograms per Kilogram
Methyl Acetate	100	Micrograms per Kilogram
Methyl tert-butyl ether	Less Than 16	Micrograms per Kilogram
Methylcyclohexane	Less Than 16	Micrograms per Kilogram
Methylene Chloride	Less Than 16	Micrograms per Kilogram
4-Methyl-2-Pentanone	Less Than 32	Micrograms per Kilogram
Styrene	Less Than 16	Micrograms per Kilogram
1,1,2,2-Tetrachloroethane	Less Than 16	Micrograms per Kilogram
Tetrachloroethene	Less Than 16	Micrograms per Kilogram
Toluene	34	Micrograms per Kilogram
1,2,3-Trichlorobenzene	Less Than 16	Micrograms per Kilogram
1,2,4-Trichlorobenzene	Less Than 16	Micrograms per Kilogram
1,1,1-Trichloroethane	Less Than 16	Micrograms per Kilogram
1,1,2-Trichloroethane	Less Than 16	Micrograms per Kilogram
Trichloroethene	Less Than 16	Micrograms per Kilogram
Trichlorofluoromethane	Less Than 16	Micrograms per Kilogram
1,1,2-Trichlorotrifluoroethane	Less Than 16	Micrograms per Kilogram
Vinyl Chloride	Less Than 16	Micrograms per Kilogram
m and/or p-Xylene	Less Than 16	Micrograms per Kilogram

Sample: 7853-1
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
o-Xylene	Less Than 16	Micrograms per Kilogram

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

06/15/2018

Results of Sample Analysis

Sample: 7853-2
Project ID: EH077H00

These are the results from the analysis of solid sample number 7853-2. This sample was collected on 05/15/2018 at the location described as: Sample location #2 - Wetlands (sediment). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-2 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Soil by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 1.2	Milligrams per Kilogram
Barium	Less Than 17.1	Milligrams per Kilogram
Cadmium	Less Than 0.43	Milligrams per Kilogram
Chromium	2.8	Milligrams per Kilogram
Lead	Approximately 2.4	Milligrams per Kilogram
Selenium	Less Than 3.0	Milligrams per Kilogram
Silver	Less Than 0.86	Milligrams per Kilogram
Volatile Organic Compounds in Soil at Low Levels by Closed-System Purge-and-Trap GC/MS.		
Acetone	Less Than 17	Micrograms per Kilogram
Benzene	Less Than 3.9	Micrograms per Kilogram
Bromochloromethane	Less Than 3.9	Micrograms per Kilogram
Bromodichloromethane	Less Than 3.9	Micrograms per Kilogram
Bromoform	Less Than 3.9	Micrograms per Kilogram
Bromomethane	Less Than 3.9	Micrograms per Kilogram
2-Butanone	Less Than 7.8	Micrograms per Kilogram
Carbon Disulfide	Less Than 3.9	Micrograms per Kilogram
Carbon Tetrachloride	Less Than 3.9	Micrograms per Kilogram
Chlorobenzene	Less Than 3.9	Micrograms per Kilogram
Chloroethane	Less Than 3.9	Micrograms per Kilogram
Chloroform	Less Than 3.9	Micrograms per Kilogram
Chloromethane	Less Than 3.9	Micrograms per Kilogram
Cyclohexane	Less Than 3.9	Micrograms per Kilogram
1,2-Dibromo-3-Chloropropane	Less Than 3.9	Micrograms per Kilogram

Sample: 7853-2
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Dibromochloromethane	Less Than 3.9	Micrograms per Kilogram
1,2-Dibromoethane	Less Than 3.9	Micrograms per Kilogram
1,2-Dichlorobenzene	Less Than 3.9	Micrograms per Kilogram
1,3-Dichlorobenzene	Less Than 3.9	Micrograms per Kilogram
1,4-Dichlorobenzene	Less Than 3.9	Micrograms per Kilogram
Dichlorodifluoromethane	Less Than 3.9	Micrograms per Kilogram
1,1-Dichloroethane	Less Than 3.9	Micrograms per Kilogram
1,2-Dichloroethane	Less Than 3.9	Micrograms per Kilogram
1,1-Dichloroethene	Less Than 3.9	Micrograms per Kilogram
cis-1,2-Dichloroethene	Less Than 3.9	Micrograms per Kilogram
trans-1,2-Dichloroethene	Less Than 3.9	Micrograms per Kilogram
1,2-Dichloropropane	Less Than 3.9	Micrograms per Kilogram
cis-1,3-Dichloropropene	Less Than 3.9	Micrograms per Kilogram
trans-1,3-Dichloropropene	Less Than 3.9	Micrograms per Kilogram
Ethyl Benzene	Less Than 3.9	Micrograms per Kilogram
2-Hexanone	Less Than 7.8	Micrograms per Kilogram
Isopropylbenzene	Less Than 3.9	Micrograms per Kilogram
Methyl Acetate	Less Than 3.9	Micrograms per Kilogram
Methyl tert-butyl ether	Less Than 3.9	Micrograms per Kilogram
Methylcyclohexane	Less Than 3.9	Micrograms per Kilogram
Methylene Chloride	Less Than 3.9	Micrograms per Kilogram
4-Methyl-2-Pentanone	Less Than 7.8	Micrograms per Kilogram
Styrene	Less Than 3.9	Micrograms per Kilogram
1,1,2,2-Tetrachloroethane	Less Than 3.9	Micrograms per Kilogram
Tetrachloroethene	Less Than 3.9	Micrograms per Kilogram
Toluene	Less Than 3.9	Micrograms per Kilogram
1,2,3-Trichlorobenzene	Less Than 3.9	Micrograms per Kilogram
1,2,4-Trichlorobenzene	Less Than 3.9	Micrograms per Kilogram
1,1,1-Trichloroethane	Less Than 3.9	Micrograms per Kilogram
1,1,2-Trichloroethane	Less Than 3.9	Micrograms per Kilogram
Trichloroethene	Less Than 3.9	Micrograms per Kilogram
Trichlorofluoromethane	Less Than 3.9	Micrograms per Kilogram
1,1,2-Trichlorotrifluoroethane	Less Than 3.9	Micrograms per Kilogram
Vinyl Chloride	Less Than 3.9	Micrograms per Kilogram
m and/or p-Xylene	Less Than 3.9	Micrograms per Kilogram

Sample: 7853-2
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
o-Xylene	Less Than 3.9	Micrograms per Kilogram

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

06/15/2018

Results of Sample Analysis

Sample: 7853-2-FD
Project ID: EH077H00

These are the results from the analysis of solid sample number 7853-2-FD. This sample was collected on 05/15/2018 at the location described as: Sample location #2 - Wetlands (sediment). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-2-FD for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Soil by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 1.4	Milligrams per Kilogram
Barium	Less Than 18.6	Milligrams per Kilogram
Cadmium	Less Than 0.47	Milligrams per Kilogram
Chromium	5.5	Milligrams per Kilogram
Lead	Approximately 1.8	Milligrams per Kilogram
Selenium	Less Than 3.3	Milligrams per Kilogram
Silver	Less Than 0.93	Milligrams per Kilogram
Volatile Organic Compounds in Soil at Low Levels by Closed-System Purge-and-Trap GC/MS.		
Acetone	Less Than 22	Micrograms per Kilogram
Benzene	Less Than 4.4	Micrograms per Kilogram
Bromochloromethane	Less Than 4.4	Micrograms per Kilogram
Bromodichloromethane	Less Than 4.4	Micrograms per Kilogram
Bromoform	Less Than 4.4	Micrograms per Kilogram
Bromomethane	Less Than 4.4	Micrograms per Kilogram
2-Butanone	Less Than 8.8	Micrograms per Kilogram
Carbon Disulfide	Less Than 4.4	Micrograms per Kilogram
Carbon Tetrachloride	Less Than 4.4	Micrograms per Kilogram
Chlorobenzene	Less Than 4.4	Micrograms per Kilogram
Chloroethane	Less Than 4.4	Micrograms per Kilogram
Chloroform	Less Than 4.4	Micrograms per Kilogram
Chloromethane	Less Than 4.4	Micrograms per Kilogram
Cyclohexane	Less Than 4.4	Micrograms per Kilogram
1,2-Dibromo-3-Chloropropane	Less Than 4.4	Micrograms per Kilogram

Sample: 7853-2-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Dibromochloromethane	Less Than 4.4	Micrograms per Kilogram
1,2-Dibromoethane	Less Than 4.4	Micrograms per Kilogram
1,2-Dichlorobenzene	Less Than 4.4	Micrograms per Kilogram
1,3-Dichlorobenzene	Less Than 4.4	Micrograms per Kilogram
1,4-Dichlorobenzene	Less Than 4.4	Micrograms per Kilogram
Dichlorodifluoromethane	Less Than 4.4	Micrograms per Kilogram
1,1-Dichloroethane	Less Than 4.4	Micrograms per Kilogram
1,2-Dichloroethane	Less Than 4.4	Micrograms per Kilogram
1,1-Dichloroethene	Less Than 4.4	Micrograms per Kilogram
cis-1,2-Dichloroethene	Less Than 4.4	Micrograms per Kilogram
trans-1,2-Dichloroethene	Less Than 4.4	Micrograms per Kilogram
1,2-Dichloropropane	Less Than 4.4	Micrograms per Kilogram
cis-1,3-Dichloropropene	Less Than 4.4	Micrograms per Kilogram
trans-1,3-Dichloropropene	Less Than 4.4	Micrograms per Kilogram
Ethyl Benzene	Less Than 4.4	Micrograms per Kilogram
2-Hexanone	Less Than 8.8	Micrograms per Kilogram
Isopropylbenzene	Less Than 4.4	Micrograms per Kilogram
Methyl Acetate	6.1	Micrograms per Kilogram
Methyl tert-butyl ether	Less Than 4.4	Micrograms per Kilogram
Methylcyclohexane	Less Than 4.4	Micrograms per Kilogram
Methylene Chloride	Less Than 4.4	Micrograms per Kilogram
4-Methyl-2-Pentanone	Less Than 8.8	Micrograms per Kilogram
Styrene	Less Than 4.4	Micrograms per Kilogram
1,1,2,2-Tetrachloroethane	Less Than 4.4	Micrograms per Kilogram
Tetrachloroethene	Less Than 4.4	Micrograms per Kilogram
Toluene	Less Than 4.4	Micrograms per Kilogram
1,2,3-Trichlorobenzene	Less Than 4.4	Micrograms per Kilogram
1,2,4-Trichlorobenzene	Less Than 4.4	Micrograms per Kilogram
1,1,1-Trichloroethane	Less Than 4.4	Micrograms per Kilogram
1,1,2-Trichloroethane	Less Than 4.4	Micrograms per Kilogram
Trichloroethene	Less Than 4.4	Micrograms per Kilogram
Trichlorofluoromethane	Less Than 4.4	Micrograms per Kilogram
1,1,2-Trichlorotrifluoroethane	Less Than 4.4	Micrograms per Kilogram
Vinyl Chloride	Less Than 4.4	Micrograms per Kilogram
m and/or p-Xylene	Less Than 4.4	Micrograms per Kilogram

Sample: 7853-2-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
o-Xylene	Less Than 4.4	Micrograms per Kilogram

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

06/15/2018

Results of Sample Analysis

Sample: 7853-3
Project ID: EH077H00

These are the results from the analysis of solid sample number 7853-3. This sample was collected on 05/15/2018 at the location described as: Sample location #3 - Wetlands (sediment). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-3 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Soil by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 1.3	Milligrams per Kilogram
Barium	53.1	Milligrams per Kilogram
Cadmium	Less Than 0.50	Milligrams per Kilogram
Chromium	7.2	Milligrams per Kilogram
Lead	Approximately 10.0	Milligrams per Kilogram
Selenium	Less Than 3.5	Milligrams per Kilogram
Silver	Less Than 1.0	Milligrams per Kilogram
Volatile Organic Compounds in Soil at Low Levels by Closed-System Purge-and-Trap GC/MS.		
Acetone	Less Than 66	Micrograms per Kilogram
Benzene	Less Than 5.8	Micrograms per Kilogram
Bromochloromethane	Less Than 5.8	Micrograms per Kilogram
Bromodichloromethane	Less Than 5.8	Micrograms per Kilogram
Bromoform	Less Than 5.8	Micrograms per Kilogram
Bromomethane	Less Than 5.8	Micrograms per Kilogram
2-Butanone	Less Than 12	Micrograms per Kilogram
Carbon Disulfide	Less Than 5.8	Micrograms per Kilogram
Carbon Tetrachloride	Less Than 5.8	Micrograms per Kilogram
Chlorobenzene	Less Than 5.8	Micrograms per Kilogram
Chloroethane	Less Than 5.8	Micrograms per Kilogram
Chloroform	Less Than 5.8	Micrograms per Kilogram
Chloromethane	Less Than 5.8	Micrograms per Kilogram
Cyclohexane	Less Than 5.8	Micrograms per Kilogram
1,2-Dibromo-3-Chloropropane	Less Than 5.8	Micrograms per Kilogram

Sample: 7853-3
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Dibromochloromethane	Less Than 5.8	Micrograms per Kilogram
1,2-Dibromoethane	Less Than 5.8	Micrograms per Kilogram
1,2-Dichlorobenzene	Less Than 5.8	Micrograms per Kilogram
1,3-Dichlorobenzene	Less Than 5.8	Micrograms per Kilogram
1,4-Dichlorobenzene	Less Than 5.8	Micrograms per Kilogram
Dichlorodifluoromethane	Less Than 5.8	Micrograms per Kilogram
1,1-Dichloroethane	Less Than 5.8	Micrograms per Kilogram
1,2-Dichloroethane	Less Than 5.8	Micrograms per Kilogram
1,1-Dichloroethene	Less Than 5.8	Micrograms per Kilogram
cis-1,2-Dichloroethene	Less Than 5.8	Micrograms per Kilogram
trans-1,2-Dichloroethene	Less Than 5.8	Micrograms per Kilogram
1,2-Dichloropropane	Less Than 5.8	Micrograms per Kilogram
cis-1,3-Dichloropropene	Less Than 5.8	Micrograms per Kilogram
trans-1,3-Dichloropropene	Less Than 5.8	Micrograms per Kilogram
Ethyl Benzene	Less Than 5.8	Micrograms per Kilogram
2-Hexanone	Less Than 12	Micrograms per Kilogram
Isopropylbenzene	Less Than 5.8	Micrograms per Kilogram
Methyl Acetate	10	Micrograms per Kilogram
Methyl tert-butyl ether	Less Than 5.8	Micrograms per Kilogram
Methylcyclohexane	Less Than 5.8	Micrograms per Kilogram
Methylene Chloride	Less Than 5.8	Micrograms per Kilogram
4-Methyl-2-Pentanone	Less Than 12	Micrograms per Kilogram
Styrene	Less Than 5.8	Micrograms per Kilogram
1,1,2,2-Tetrachloroethane	Less Than 5.8	Micrograms per Kilogram
Tetrachloroethene	Less Than 5.8	Micrograms per Kilogram
Toluene	15	Micrograms per Kilogram
1,2,3-Trichlorobenzene	Less Than 5.8	Micrograms per Kilogram
1,2,4-Trichlorobenzene	Less Than 5.8	Micrograms per Kilogram
1,1,1-Trichloroethane	Less Than 5.8	Micrograms per Kilogram
1,1,2-Trichloroethane	Less Than 5.8	Micrograms per Kilogram
Trichloroethene	Less Than 5.8	Micrograms per Kilogram
Trichlorofluoromethane	Less Than 5.8	Micrograms per Kilogram
1,1,2-Trichlorotrifluoroethane	Less Than 5.8	Micrograms per Kilogram
Vinyl Chloride	Less Than 5.8	Micrograms per Kilogram
m and/or p-Xylene	Less Than 5.8	Micrograms per Kilogram

Sample: 7853-3
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
o-Xylene	Less Than 5.8	Micrograms per Kilogram

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Results of Sample Analysis

Sample: 7853-4
Project ID: EH077H00

These are the results from the analysis of solid sample number 7853-4. This sample was collected on 05/15/2018 at the location described as: Sample location #4 - Wetlands (sediment). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-4 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Soil by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 1.7	Milligrams per Kilogram
Barium	47.5	Milligrams per Kilogram
Cadmium	Less Than 0.47	Milligrams per Kilogram
Chromium	8.0	Milligrams per Kilogram
Lead	Approximately 10.2	Milligrams per Kilogram
Selenium	Less Than 3.3	Milligrams per Kilogram
Silver	Less Than 0.93	Milligrams per Kilogram
Volatile Organic Compounds in Soil at Low Levels by Closed-System Purge-and-Trap GC/MS.		
Acetone	Less Than 53	Micrograms per Kilogram
Benzene	Less Than 5.7	Micrograms per Kilogram
Bromochloromethane	Less Than 5.7	Micrograms per Kilogram
Bromodichloromethane	Less Than 5.7	Micrograms per Kilogram
Bromoform	Less Than 5.7	Micrograms per Kilogram
Bromomethane	Less Than 5.7	Micrograms per Kilogram
2-Butanone	Less Than 11	Micrograms per Kilogram
Carbon Disulfide	Less Than 5.7	Micrograms per Kilogram
Carbon Tetrachloride	Less Than 5.7	Micrograms per Kilogram
Chlorobenzene	Less Than 5.7	Micrograms per Kilogram
Chloroethane	Less Than 5.7	Micrograms per Kilogram
Chloroform	Less Than 5.7	Micrograms per Kilogram
Chloromethane	Less Than 5.7	Micrograms per Kilogram
Cyclohexane	Less Than 5.7	Micrograms per Kilogram
1,2-Dibromo-3-Chloropropane	Less Than 5.7	Micrograms per Kilogram

Sample: 7853-4
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Dibromochloromethane	Less Than 5.7	Micrograms per Kilogram
1,2-Dibromoethane	Less Than 5.7	Micrograms per Kilogram
1,2-Dichlorobenzene	Less Than 5.7	Micrograms per Kilogram
1,3-Dichlorobenzene	Less Than 5.7	Micrograms per Kilogram
1,4-Dichlorobenzene	Less Than 5.7	Micrograms per Kilogram
Dichlorodifluoromethane	Less Than 5.7	Micrograms per Kilogram
1,1-Dichloroethane	Less Than 5.7	Micrograms per Kilogram
1,2-Dichloroethane	Less Than 5.7	Micrograms per Kilogram
1,1-Dichloroethene	Less Than 5.7	Micrograms per Kilogram
cis-1,2-Dichloroethene	Less Than 5.7	Micrograms per Kilogram
trans-1,2-Dichloroethene	Less Than 5.7	Micrograms per Kilogram
1,2-Dichloropropane	Less Than 5.7	Micrograms per Kilogram
cis-1,3-Dichloropropene	Less Than 5.7	Micrograms per Kilogram
trans-1,3-Dichloropropene	Less Than 5.7	Micrograms per Kilogram
Ethyl Benzene	Less Than 5.7	Micrograms per Kilogram
2-Hexanone	Less Than 11	Micrograms per Kilogram
Isopropylbenzene	Less Than 5.7	Micrograms per Kilogram
Methyl Acetate	8.5	Micrograms per Kilogram
Methyl tert-butyl ether	Less Than 5.7	Micrograms per Kilogram
Methylcyclohexane	Less Than 5.7	Micrograms per Kilogram
Methylene Chloride	Less Than 5.7	Micrograms per Kilogram
4-Methyl-2-Pentanone	Less Than 11	Micrograms per Kilogram
Styrene	Less Than 5.7	Micrograms per Kilogram
1,1,2,2-Tetrachloroethane	Less Than 5.7	Micrograms per Kilogram
Tetrachloroethene	Less Than 5.7	Micrograms per Kilogram
Toluene	9.0	Micrograms per Kilogram
1,2,3-Trichlorobenzene	Less Than 5.7	Micrograms per Kilogram
1,2,4-Trichlorobenzene	Less Than 5.7	Micrograms per Kilogram
1,1,1-Trichloroethane	Less Than 5.7	Micrograms per Kilogram
1,1,2-Trichloroethane	Less Than 5.7	Micrograms per Kilogram
Trichloroethene	Less Than 5.7	Micrograms per Kilogram
Trichlorofluoromethane	Less Than 5.7	Micrograms per Kilogram
1,1,2-Trichlorotrifluoroethane	Less Than 5.7	Micrograms per Kilogram
Vinyl Chloride	Less Than 5.7	Micrograms per Kilogram
m and/or p-Xylene	Less Than 5.7	Micrograms per Kilogram

Sample: 7853-4
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
o-Xylene	Less Than 5.7	Micrograms per Kilogram

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Results of Sample Analysis

Sample: 7853-101
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-101. This sample was collected on 05/15/2018 at the location described as: DPT #1 (42-46'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-101 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 13.1	Micrograms per Liter
Barium	563	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	45.8	Micrograms per Liter
Lead	163	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-101
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-101
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-102
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-102. This sample was collected on 05/15/2018 at the location described as: DPT #1 (29-33'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-102 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 11.5	Micrograms per Liter
Barium	372	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	61.4	Micrograms per Liter
Lead	232	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-102
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-102
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-102-FD
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-102-FD. This sample was collected on 05/15/2018 at the location described as: DPT #1 (29-33'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-102-FD for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	246	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	50.6	Micrograms per Liter
Lead	120	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-102-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-102-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-103
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-103. This sample was collected on 05/15/2018 at the location described as: DPT #1 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-103 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 12.6	Micrograms per Liter
Barium	349	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	66.2	Micrograms per Liter
Lead	93.7	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-103
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-103
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-104
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-104. This sample was collected on 05/15/2018 at the location described as: DPT #1 (6-10'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-104 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 16.6	Micrograms per Liter
Barium	1110	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	149	Micrograms per Liter
Lead	102	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-104
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-104
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-105
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-105. This sample was collected on 05/15/2018 at the location described as: DPT #2 (42-46'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-105 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	205	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 15.4	Micrograms per Liter
Barium	1350	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	35.0	Micrograms per Liter
Lead	Approximately 30.5	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-105
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-105
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-106
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-106. This sample was collected on 05/15/2018 at the location described as: DPT #2 (29-33'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-106 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	739	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	196	Micrograms per Liter
Lead	216	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-106
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-106
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-107
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-107. This sample was collected on 05/15/2018 at the location described as: DPT #2 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-107 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	262	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	179	Micrograms per Liter
Lead	Approximately 46.9	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-107
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-107
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-107-FD
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-107-FD. This sample was collected on 05/15/2018 at the location described as: DPT #2 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-107-FD for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	227	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	104	Micrograms per Liter
Lead	Approximately 23.7	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	245	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	170	Micrograms per Liter
Lead	Approximately 49.8	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-107-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-107-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

United States Environmental Protection Agency
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11201 Renner Blvd
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Results of Sample Analysis

Sample: 7853-108
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-108. This sample was collected on 05/15/2018 at the location described as: DPT #2 (6-10'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-108 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.4	Micrograms per Liter
Barium	898	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	189	Micrograms per Liter
Lead	58.1	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-108
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-108
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-109
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-109. This sample was collected on 05/14/2018 at the location described as: DPT #3 (42-46'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-109 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	28.2	Micrograms per Liter
Barium	380	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	181	Micrograms per Liter
Lead	54.3	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-109
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-109
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-110
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-110. This sample was collected on 05/14/2018 at the location described as: DPT #3 (29-33'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-110 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	24.1	Micrograms per Liter
Barium	475	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	66.9	Micrograms per Liter
Lead	239	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-110
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-110
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-111
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-111. This sample was collected on 05/14/2018 at the location described as: DPT #3 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-111 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	18.7	Micrograms per Liter
Barium	287	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	71.1	Micrograms per Liter
Lead	94.2	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-111
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-111
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-112
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-112. This sample was collected on 05/14/2018 at the location described as: DPT #3 (6-10'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-112 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	17.7	Micrograms per Liter
Barium	876	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	117	Micrograms per Liter
Lead	76.3	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-112
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-112
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Region 7
11201 Renner Blvd
Lenexa, KS 66219

06/15/2018

Results of Sample Analysis

Sample: 7853-113
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-113. This sample was collected on 05/14/2018 at the location described as: DPT #4 (42-46'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-113 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	296	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	57.0	Micrograms per Liter
Lead	Approximately 11.2	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-113
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-113
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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

06/15/2018

Results of Sample Analysis

Sample: 7853-114
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-114. This sample was collected on 05/14/2018 at the location described as: DPT #4 (29-33'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-114 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	283	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	182	Micrograms per Liter
Lead	55.5	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-114
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-114
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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

06/15/2018

Results of Sample Analysis

Sample: 7853-115
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-115. This sample was collected on 05/14/2018 at the location described as: DPT #4 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-115 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 13.6	Micrograms per Liter
Barium	424	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	118	Micrograms per Liter
Lead	79.7	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-115
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-115
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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

06/15/2018

Results of Sample Analysis

Sample: 7853-116
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-116. This sample was collected on 05/14/2018 at the location described as: DPT #4 (6-10'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-116 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	39.0	Micrograms per Liter
Barium	412	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	156	Micrograms per Liter
Lead	151	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-116
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-116
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Lenexa, KS 66219

06/15/2018

Results of Sample Analysis

Sample: 7853-117
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-117. This sample was collected on 05/15/2018 at the location described as: DPT #5 (16-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-117 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 12.0	Micrograms per Liter
Barium	426	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	38.5	Micrograms per Liter
Lead	60.1	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-117
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-117
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

United States Environmental Protection Agency
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Lenexa, KS 66219

06/15/2018

Results of Sample Analysis

Sample: 7853-118
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-118. This sample was collected on 05/14/2018 at the location described as: DPT #6 (42-46'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-118 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	421	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	190	Micrograms per Liter
Lead	Approximately 33.6	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-118
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-118
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

United States Environmental Protection Agency
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Results of Sample Analysis

Sample: 7853-119
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-119. This sample was collected on 05/15/2018 at the location described as: WFE-5A (42-45'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-119 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 25.1	Micrograms per Liter
Barium	300	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Approximately 10.1	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-119
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-119
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-120
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-120. This sample was collected on 05/15/2018 at the location described as: WFE-5B (17-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-120 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	211	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-120
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-120
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-121
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-121. This sample was collected on 05/15/2018 at the location described as: WFE-6B (17-20'). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-121 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-121
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-121
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-122
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-122. This sample was collected on 05/15/2018 at the location described as: Sample location #1 - Wetlands (SW). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-122 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-122
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-122
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-123
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-123. This sample was collected on 05/15/2018 at the location described as: Sample location #2 - Wetlands (SW). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-123 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-123
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-123
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
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06/15/2018

Results of Sample Analysis

Sample: 7853-124
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-124. This sample was collected on 05/15/2018 at the location described as: Sample location #3 - Wetlands (SW). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-124 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-124
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-124
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Lenexa, KS 66219

06/15/2018

Results of Sample Analysis

Sample: 7853-125
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-125. This sample was collected on 05/15/2018 at the location described as: Sample location #4 - Wetlands (SW). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-125 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-125
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-125
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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11201 Renner Blvd
Lenexa, KS 66219

06/15/2018

Results of Sample Analysis

Sample: 7853-125-FD
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-125-FD. This sample was collected on 05/15/2018 at the location described as: Sample location #4 - Wetlands (SW). If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-125-FD for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Metals - Dissolved, in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter

Sample: 7853-125-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter

Sample: 7853-125-FD
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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Results of Sample Analysis

Sample: 7853-126
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-126. This sample was collected on 05/15/2018 at the location described as: Rinsate Blank. If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-126 for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter

Sample: 7853-126
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter

Sample: 7853-126
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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06/15/2018

Results of Sample Analysis

Sample: 7853-140-FB
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-140-FB. This sample was collected on 05/15/2018 at the location described as: Field Blank sample. If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-140-FB for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Totals of Toxicity Characteristic Leaching Procedure (TCLP) Metals in Water by Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)		
Arsenic	Less Than 10.0	Micrograms per Liter
Barium	Less Than 200	Micrograms per Liter
Cadmium	Less Than 5.0	Micrograms per Liter
Chromium	Less Than 10.0	Micrograms per Liter
Lead	Less Than 10.0	Micrograms per Liter
Selenium	Less Than 35.0	Micrograms per Liter
Silver	Less Than 10.0	Micrograms per Liter
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter

Sample: 7853-140-FB
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter

Sample: 7853-140-FB
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter

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

06/15/2018

Results of Sample Analysis

Sample: 7853-141-FB
Project ID: EH077H00

These are the results from the analysis of water sample number 7853-141-FB. This sample was collected on 05/09/2018 at the location described as: LDL VOA Trip Blank sample. If you have any questions about these results, contact Elizabeth Hagenmaier at the above address or by calling 913-551-7939. Correspondence should refer to sample number 7853-141-FB for project: EH077H00 - White Farm Equipment Co. Dump.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Water by Gas Chromatography and Mass Selective Detection (GC/MS)		
Acetone	Less Than 10	Micrograms per Liter
Benzene	Less Than 5.0	Micrograms per Liter
Bromochloromethane	Less Than 5.0	Micrograms per Liter
Bromodichloromethane	Less Than 5.0	Micrograms per Liter
Bromoform	Less Than 5.0	Micrograms per Liter
Bromomethane	Less Than 5.0	Micrograms per Liter
2-Butanone	Less Than 10	Micrograms per Liter
Carbon Disulfide	Less Than 5.0	Micrograms per Liter
Carbon Tetrachloride	Less Than 5.0	Micrograms per Liter
Chlorobenzene	Less Than 5.0	Micrograms per Liter
Chloroethane	Less Than 5.0	Micrograms per Liter
Chloroform	Less Than 5.0	Micrograms per Liter
Chloromethane	Less Than 5.0	Micrograms per Liter
Cyclohexane	Less Than 5.0	Micrograms per Liter
1,2-Dibromo-3-Chloropropane	Less Than 5.0	Micrograms per Liter
Dibromochloromethane	Less Than 5.0	Micrograms per Liter
1,2-Dibromoethane	Less Than 5.0	Micrograms per Liter
1,2-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,3-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
1,4-Dichlorobenzene	Less Than 5.0	Micrograms per Liter
Dichlorodifluoromethane	Less Than 5.0	Micrograms per Liter
1,1-Dichloroethane	Less Than 5.0	Micrograms per Liter
1,2-Dichloroethane	Less Than 5.0	Micrograms per Liter

Sample: 7853-141-FB
Project ID: EH077H00

Analysis/Analyte	Amount Found	Units
1,1-Dichloroethene	Less Than 5.0	Micrograms per Liter
cis-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
trans-1,2-Dichloroethene	Less Than 5.0	Micrograms per Liter
1,2-Dichloropropane	Less Than 5.0	Micrograms per Liter
cis-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
trans-1,3-Dichloropropene	Less Than 5.0	Micrograms per Liter
Ethyl Benzene	Less Than 5.0	Micrograms per Liter
2-Hexanone	Less Than 10	Micrograms per Liter
Isopropylbenzene	Less Than 5.0	Micrograms per Liter
Methyl Acetate	Less Than 5.0	Micrograms per Liter
Methyl tert-butyl ether	Less Than 5.0	Micrograms per Liter
Methylcyclohexane	Less Than 5.0	Micrograms per Liter
Methylene Chloride	Less Than 5.0	Micrograms per Liter
4-Methyl-2-Pentanone	Less Than 10	Micrograms per Liter
Styrene	Less Than 5.0	Micrograms per Liter
1,1,2,2-Tetrachloroethane	Less Than 5.0	Micrograms per Liter
Tetrachloroethene	Less Than 5.0	Micrograms per Liter
Toluene	Less Than 5.0	Micrograms per Liter
1,2,3-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,2,4-Trichlorobenzene	Less Than 5.0	Micrograms per Liter
1,1,1-Trichloroethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichloroethane	Less Than 5.0	Micrograms per Liter
Trichloroethene	Less Than 5.0	Micrograms per Liter
Trichlorofluoromethane	Less Than 5.0	Micrograms per Liter
1,1,2-Trichlorotrifluoroethane	Less Than 5.0	Micrograms per Liter
Vinyl Chloride	Less Than 5.0	Micrograms per Liter
m and/or p-Xylene	Less Than 5.0	Micrograms per Liter
o-Xylene	Less Than 5.0	Micrograms per Liter