BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

PARKER'S GAS AND MORE, INC.,)	
Petitioner,)	
v.)	PCB 2019-079 (LUST Appeal)
ILLINOIS ENVIRONMENTAL	į	(2001 Appear)
PROTECTION AGENCY,)	
Respondent.)	

NOTICE

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

Carol Webb, Hearing Officer Illinois Pollution Control Board 1021 North Grand Avenue East P.O. Box 19274 Springfield, IL 62794-9274 carol.webb@illinois.gov

Patrick D. Shaw Law Office of Patrick D. Shaw 80 Bellerive Road Springfield, IL 62704 pdshaw1law@gmail.com

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board an APPEARANCE, the ADMINISTRATIVE RECORD and a CERTIFICATE OF RECORD ON APPEAL, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,

Respondent

Melanine

Melanie A. Jarvis

Assistant Counsel
Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

866/273-5488 (TDD)

Dated: October 22, 2020

BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

PARKER'S GAS AND MORE, INC.,)	
Petitioner,)	
)	
V.)	PCB 2019-079
	j	(LUST Appeal)
ILLINOIS ENVIRONMENTAL	j	
PROTECTION AGENCY,	j	
Respondent.	j	

APPEARANCE

The undersigned, as one of its attorneys, hereby enters her Appearance on behalf of the Respondent, the Illinois Environmental Protection Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent

Melanie A. Jarvis

Assistant Counsel

Special Assistant Attorney General

Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

866/273-5488 (TDD)

Dated: October 22 2020

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

PARKER'S GAS AND MORE, INC., Petitioner,)	
v.)	PCB 2019-079 (LUST Appeal)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,	j	(Lobi rippedi)
Respondent.	j	

CERTIFICATE OF RECORD ON APPEAL

Pursuant to 35 Ill. Adm. Code 105.116(b) and 105.410, the following constitutes an index of documents comprising the record:

PAGES	DOCUMENT(S)	DATE
R0001-R0003	OSFM Eligibility Determination	July 18, 2007
R0004-R0214	Corrective Action Plan and Budget	February 13, 2015
R0215-R0217	IEPA Decision Letter	May 20, 2015
R0218-R0267	IEPA Reviewer Notes	September 28, 2018
R0268-R0356	Reimbursement Claim	August 13, 2018
R0357-R0482	Corrective Action Progress Report	August 21, 2018
R0483-R0489	IEPA Decision Letter	November 15, 2018

I, Brian Bauer, certify on information and belief that the entire record of the Respondent's decision, as defined in 35 Ill. Adm. Code 105.410(b), is hereby enclosed.

Brian Bauer, Project Manager

Leaking Underground Storage Tank Section Illinois Environmental Protection Agency

Date: 10-21-2020

This filing submitted on recycled paper.

CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that on **October 22, 2020**, I served true and correct copies of an **APPEARANCE**, the **ADMINISTRATIVE RECORD** and a **CERTIFICATE OF RECORD ON APPEAL**, via the Board's COOL system and email, upon the following named persons:

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

Patrick D. Shaw Law Office of Patrick D. Shaw 80 Bellerive Road Springfield, IL 62704 pdshaw1law@gmail.com Carol Webb, Hearing Officer Illinois Pollution Control Board 1021 North Grand Avenue East P.O. Box 19274 Springfield, IL 62794-9274 carol.webb@illinois.gov

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent

Melanie A. Jarvis

Assistant Counsel

Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

866/273-5488 (TDD)



Office of the Illinois State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

RECEIVED AMENDED

JUL 2 3 2607

July 18, 2007

DL.

Parker's Gas and More P.O. Box 236 Clayton, IL 62324

In Re:

Facility No. 5-013158 IEMA Incident No. 95-1012 Parker Gas-N-More, Inc. 101 E Outerbelt Dr., Hwy. 24

P.O. Box 236

Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 3 4,000 gallon Gasoline

Tank 4 4,000 gallon Gasoline

Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

- 1. Neither the owner nor the operator is the United States Government,
- 2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
- 3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
- 7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk Illinois Pollution Control Board State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 (312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline Tank 2 6,000 gallon Gasoline Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

Deanne Lock

Administrative Assistant

Division of Petroleum and Chemical Safety

cc:

IEPA

Facility File

Environmental Group INC.

Waste Management and Remediation Services

0010105006 – Adams County Parker's Gas & More Inc. Incident # 951012 Leaking UST Technical File

February 13, 2015

Illinois Environmental Protection Agency Bureau of Land LUST Unit P.O. Box 19276 Springfield, IL. 62794-9276

EEPA DAYSION OF RECORDS MANAGEMENT RELEASABLE

MAY 2 9 2015

REVIEWER: JKS

RE:

LPC# 0010105006- Adams County Parker's Gas & More/Clayton, IL 101 E Outer Belt Drive IEMA # 951012

Ms. Valerie Davis:

Enclosed please find one original and one copy of the Corrective Action Plan & Budget for the above referenced site.

Should you have any questions or need additional information, please call Marvin Johnson of Chase Environmental Group, Inc. at 618.533.6740.

Sincerely,

Chase Environmental Group, Inc.

Kelly Tenomeyer

Kelly Tensmeyer, PG Sr. Project Manager

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Corrective Action Plan & Free Product Removal Report

Parker's Gas & More 101 East Outer Belt Drive Clayton, Illinois Adams County LPC# 0010105006 IEMA # 951012

CEG Project #F0908004

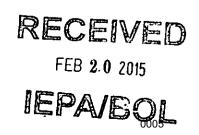
Prepared for:

Mr. Ted Parker 2970 North 2050th Ave Clayton, IL 62324

By:

Chase Environmental Group, Inc. PO Drawer AB Centralia, IL 62801

January 2015





A Site Identification

Electronic Filing: Received, Clerk's Office 10/23/2020

Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

	IEMA Incident # (6- or 8-digit): 951012		IEPA LPC# (10-digit): 0010105006	
	Site Name: Parker's Gas & More			
	Site Address (Not a P.O. Box): 101 E	East Outer Belt Drive		
	City: Clayton	County: Adams	ZIP Cod	de: 62324
₿.	Site Information			
	1. Will the owner or operator seek re	eimbursement from the Und	derground Storage Tank Fu	ınd? ☑ Yes 🗌 No
	2. If yes, is the budget attached?	✓ Yes No		
	3. Is this an amended plan?	☐ Yes 🗸 No		
	4. Identify the material(s) released:	Gasoline, Diesel		
	5. This Corrective Action Plan is sub	omitted pursuant to:		
	a. 35 III. Adm. Code 731.166			
	The material released wa	s:		
	-petroleum			
	-hazardous substar Protection Act S	nce (see Environmental Section 3.215)		
	b. 35 III. Adm. Code 732.404			
	c. 35 III. Adm. Code 734.335		7	
C.	Proposed Methods of Remedi	ation		
	Soil Soil Abatement, Highway Au	ithority Agreement, Land U	se Restriction	
	2. Groundwater Existing Groundwa			
D.	Soil and Groundwater Investig (for incidents subject to 35 III. Adm. Code	-	ssified using Method One or T	wo, if not previously provided)
	Provide the following:			
	1. Description of investigation activit	ties performed to define the	extents of soil and/or grou	indwater contamination;
	2. Analytical results, chain-of-custoo	ly forms, and laboratory ce	rtifications;	
	3. Tables comparing analytical resul	lts to applicable remediatio	n objectives;	RECEIVED

Corrective Action Plan
Page 1 of 4

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- Boring logs;
- 5. Monitoring well logs; and
- Site maps meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

- Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
- 2. Identification of the remediation objectives proposed for the site;
- 3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
- 4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
- 5. A description of the current and projected future uses of the site;
- 6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls;
- 7. The water supply well survey:
 - Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well:
 - Map(s) showing regulated recharge areas and wellhead protection areas;
 - Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement).

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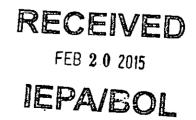
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- 8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
- 9. Site map(s) meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440;
- Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
- 11. A description of bench/pilot studies;
- 12. Cost comparison between proposed method of remediation and other methods of remediation;
- 13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
- 14. Provide documentation to demonstrate the following for alternative technologies:
 - The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

- 1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 III. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a pH \leq 2.0 or \geq 12.5; and
 - Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 III. Adm. Code 721.124.
- A discussion of how any exposure pathways are to be excluded.



G. Signatures

Electronic Filing: Received, Clerk's Office 10/23/2020

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Pa	arker's Gas & More
Contact	Ted Parker
Address	2970 North 2050th Avenue
City Cla	yton
State IL	
Zip Code	
Phone _	217-430-1130
Signature	
Date S	110/15

Consultant

Company Chase Environmental Group, Inc.
Contact Marvin Johnson
Address 418 South Poplar Street
City Centralia
State IL
Zip Code 62801
Phone 618/533-6740
Signature
Date

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Kelly Tensmeyer
Company Chase Environmental Group, Inc.
Address 418 Soth Poplar Street
City Centralia
State IL
Zip Code 62801
Phone 618/533-6740
III. Registration No. 196-001293
License Expiration Date 03/31/2015
Signature Kelly L Tenson
Date 2-12-15

L.P.E. or L.P.G. Seal



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Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Free Product Removal

A.	Site Identification		
IEMA Incident # (6- or 8-digit): Site Name: Parker's Gas & Mor			IEPA LPC# (10-digit): 0010105006
	Site Address (Not a P.O. Box): City: Clayton	101 East Outer Belt Drive County: Adams	ZIP Code: 62324
В.	Information Provided		

- Free Product Removal Plan
- 2. Free Product Removal Budget X
- Free Product Removal Report

C. Free Product Removal

Provide the following:

- 1. The name(s) of the person(s) responsible for implementing the free product removal measures;
- The estimated quantity, type, and thickness of free product observed or measured in boreholes, wells, excavation, etc.:
- 3. The type of free product recovery system used and technical justification for the method of recovery chosen;
- 4. Whether any discharge will take place on- or off-site during the recovery operation and where this discharge (point) will be located;
- 5. The type of treatment applied to, and the effluent quality expected from, any discharge;
- The disposition of the recovered free product;
- 7. The steps that have been taken or that are being taken to obtain necessary permits for any discharge;
- 8. The steps taken to identify the source and extent of free product; and
- 9. A schedule of future activities necessary to complete the recovery of free product still exceeding one-eighth of an inch in depth.

FEB 2 0 2015

IEPA/BOL

Free Product Removal
Page 1 of 3

IL 532 2278 LPC 504 Rev. April 2014

D. Supporting Documentation Filing: Received, Clerk's Office 10/23/2020

Provide the following:

- 1. Site map meeting the requirements of 35 III. Adm. Code of 734.440 and showing:
 - a. Locations where free product was encountered including its estimated thickness;
 - Location of recovery points;
 - Location of the treatment unit; and
 - Location of discharge points:
- 2. A table showing the dates that free product recovery was conducted and the amount of free product recovered on each date: and
- 3. Copies of waste manifests.

E. Submission of a Free Product Removal Plan

In accordance with 35 III. Adm. Code 734.215, if free product removal activities will be conducted more than 45 days after confirmation of the presence of free product, the owner or operator must submit to the Illinois EPA for review a free product removal plan and budget, if applicable. The plan must include the information requested under Sections C and D of this form, as applicable.

F. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator	Consultant
Name Parker's Gas & More	Company Chase Environmental Group, Inc.
Contact Ted Parker	Contact Marvin Johnson
Address 2970 North 2050th Avenue	Address PO Box AB
City Clayton	City Centralia
State IL	State IL
Zip Code 62324	Zip Code 62801
Phone 2\7-430-1130	Phone 618-533-6740
Signature Tentana	E-mail: mjohnsone chaseenv.com
Date 2-/0-/-5	Signature m
	Date

Continue onto next page.

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code 731, 732, or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Kelly L. Tensmeyer

Company Chase Environmental Group, Inc.

Address PO Box AB

City Centralia

State IL

Zip Code 62801

Phone 618-533-6740

Ill. Registration No. 196-001293

License Expiration Date 03/31/2019

Signature Kolly L. Tessment

L.P.E. or L.P.G. Seal



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IEPA/BOL

Corrective Action Plan & Free Product Removal Report Parker's Gas & More, Inc. 101 E Outer Belt Drive LPC# 0010105006 IEMA # 951012

Table of Contents

D.	Soil and Groundwater Investigation Results	1
1. gro	Description of investigation activities performed to define the extents of soil and/or undwater contamination	1
2.	Analytical results, chain-of-custody forms, and laboratory certifications;	4
3.	Tables comparing analytical results to applicable remediation objectives;	4
4.	Boring logs;	4
5. sho	Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and wing:	4
a.	Soil sample locations;	4
b.	Monitoring well locations; and	5
c.	Plumes of soil and groundwater contamination	5
E.	Technical Information – Corrective Action Plan	5
1. app	Executive summary identifying the objectives of the corrective action plan and the technic broach to be utilized to meet such objectives;	
a.	The major components of the corrective action plan;	7
b.	The scope of the problems to be addressed by the proposed corrective action; and	8
c.	A schedule for implementation and completion of the plan;	9
2.	Identification of the remediation objectives proposed for the site;	9
3.	A description of the remedial technologies selected:	9
a.	The feasibility of implementing the remedial technologies	11
b. rem	Whether the remedial technologies will perform satisfactorily and reliable until the nediation objectives are achieved; and	12
c.	A schedule of when the technologies are expected to achieve the applicable remediation ectives;	
4. acti	A confirmation sampling plan that describes how the effectiveness of the corrective action vities will be monitored during their implementation and after their completion;	
5.	A description of the current and projected future uses of the site:	13

6. ach	A description of engineered barriers or institutional controls that will be relied upon to ieve remediation objectives:	. 13
a.	An assessment of their long-term reliability;	. 13
b.	Operating and maintenance plans; and	14
c.	Maps showing area covered by barriers and institutional controls	. 14
7.	The water supply well survey;	. 14
a. sett	Map(s) showing locations of community water supply wells and other potable wells and the pack zone for each well;	
b.	Map(s) showing regulated recharge areas and wellhead protection areas;	. 14
c. stri:	Map(s) showing the current extent of groundwater contamination exceeding the most ngent Tier 1 remediation objectives;	. 14
d. stri:	Map(s) showing the modeled extent of groundwater contamination exceeding the most ngent Tier 1 remediation objectives;	. 14
e. wat	Tables listing the setback zone for each community water supply well and other potable ter supply wells;	. 15
	A narrative identifying each entity contacted to identify potable water supply wells, the ne and title of each person contacted, and any field observations associated with any wells ntified; and	. 15
	A certification from a Licensed Professional Engineer or Licensed Professional Geologist the survey was conducted in accordance with the requirements and that documentation mitted includes information obtained as a result of the survey;	
8.	Appendices:	. 15
a.	References and data sources report;	. 15
b.	Field logs, well logs, and reports of laboratory analyses;	. 15
9.	Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;	. 15
10. spe	Engineering design specifications, diagrams, schematics, calculations, manufacturer's cifications, etc.;	. 16
11.		. 16
12. rem	Cost comparison between proposed method of remediation and other methods of nediation;	. 16
13.	For the proposed Tier 2 or 3 remediation objectives, provide the following:	. 16
a.	The equations used;	. 16
b.	A discussion of how input variables were determined;	. 16
c.	Map(s) depicting distances used in equations; and	. 1 7
d.	Calculations; and	. 17
14.	Provide documentation to demonstrate the following for alternative technologies:	. 17

	oposed alternative technology has a substantial likelihood of successfully achieving with all applicable regulations and remediation objectives;
	oposed alternative technology will not adversely affect human health and safety or the it;
c. The ow of the alterr	oner or operator will obtain all Illinois EPA permits necessary to legally authorize use native technology;
subsection (oner or operator will implement a program to monitor whether the requirements of (14)(a) have been met;
to the Illino technology	one year from the date of Illinois EPA approval, the owner or operator will provide is EPA monitoring program results establishing whether the proposed alternative will successfully achieve compliance with the requirements of subsection (14)(a);
conventions technologie	Instration that the cost of alternative technology will not exceed the cost of all technology and is not substantially higher than at least two other alternative is, if available and technically feasible
F. Exposi	re Pathway Exclusion
	ription of the tests to be performed in determining whether the following ts will be met:18
a. Attenu	ation capacity of the soil will not be exceeded for any of the organic contaminants; 18
b. Soil sa	turation limit will not be exceeded for any of the organic contaminants18
c. Contar	ninated soils do not exhibit any of the reactivity characteristics of hazardous waste Adm. Code 721.123;
d. Contar	ninated soils do not exhibit a pH \leq 2.0 or \geq 12.5; and
e. Contar selenium (c	ninated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or or their associated salts) do not exhibit any of the toxicity characteristics of hazardous 5 Ill. Adm. Code 721.124
2. A disc	ussion of how any exposure pathways are to be excluded19
Tables	
Table 1:	Excavation Soil Analytical Summary
Table 2:	Soil Boring Analytical Summary
Table 3: Table 4:	Overburden Soil Analytical Summary Groundwater Analytical Summary
Table 4.	Glouidwater Anaryticar Summary
Figures	
Figure 1:	Sample Locations
Figure 2:	Estimated Soil Plume Map
Figure 3:	Estimated Groundwater Plume Map
Figure 4:	R-26 Modeling
Figure 5:	Proposed Excavation Limits
Figure 6:	Proposed Monitoring Well Locations

Figure 7: Asphalt Replacement Map Figure 8: Institutional Controls Map Figure 9: Groundwater Flow Map

Figure 10: Source Width & Source Length

Appendices

Appendix A: TACO Equations

Appendix B: Laboratory Reports, Chain of Custody Forms & Laboratory Certifications

Appendix C: Boring Logs

Appendix D: Well Completion Reports
Appendix E: Property Owner Notification

Appendix F: Budget

Corrective Action Plan & Free Product Removal Report Parker's Gas & More, Inc. 101 E Outer Belt Drive LPC# 0010105006 IEMA # 951012

D. Soil and Groundwater Investigation Results

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;

The soil and groundwater investigation proposed in the Corrective Action Plan (CAP) approved by the Agency on May 14, 2009, was completed in March and April 2009. As a result of the investigation, the extent of petroleum contamination exceeding applicable Tier 1 Residential soil objectives and Class I Groundwater objectives resulting from IEMA #951012 has been delineated.

The 2009 investigation confirms soil and groundwater contamination exceeding applicable Tier 1 Residential soil objectives and Class I Groundwater Standards remains on-site, on adjoining properties east and south of the site and in the Outer Belt Drive Right of Way (ROW) adjoining the south property boundary.

Contaminant transport modeling (i.e., Leachate and R-26 modeling) included in the CAP submitted on November 11, 2011 indicated the potential migratory extent of groundwater contamination resulting from IEMA #951012 does not exceed the Clayton city limits. The models included in Appendix A have been revised to reflect various default values adjusted in 2013. As reported in 2011, revised contaminant transport modeling also indicates the potential migratory extent of groundwater contamination exceeding Class I Groundwater Standards will not exceed Clayton city limits. The City of Clayton groundwater ordinance (Ordinance No. 1-2009-2010) prohibiting the use of potable water supply wells within City Limits has been approved by the Illinois Environmental Protection Agency (IEPA) as appropriate for use as an Institutional Control. completion of the soil abatement activities and the groundwater evaluation that will follow as proposed in this CAP, contaminant transport models will require revision to reflect the benefit to groundwater quality as a result of abating soil with contaminant concentrations exceeding applicable Soil Saturation Limits, site-specific soil objectives (Tier 2 Industrial/Commercial) and off-site (Tier 1 Residential) soil objectives.

In August 2013, an investigation was performed to identify areas in which soils with contaminant concentrations below applicable objectives overlie soils with contaminant concentrations exceeding the objectives (commonly referred to as overburden).

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 2

The investigation also included locating, reconditioning and sampling existing monitoring wells to determine current groundwater contaminant concentrations (the wells were last sampled on March 6, 2009).

The monitoring wells were located on August 12, 2013. It should be noted that monitoring wells MW-6, MW-7 and MW-8 have apparently been destroyed as a result of the 2006 soil abatement activities. These wells were not included in the March 6, 2009 groundwater sampling event and could not be located on August 12, 2013.

On August 13, 2013, fourteen (14) soil borings were advanced to investigate shallow soil within the area identified as the plume of soil contamination resulting from IEMA #951012. The August 13, 2013 boring locations are identified as OS-1 through OS-14 on the site maps included in this report. Based on the analytical results of soil samples collected during the August 2013 investigation, shallow soil in the vicinity of the OS-1 and OS-2 boring locations exceed site-specific Tier 2 Industrial/Commercial and/or Tier 2 Construction Worker Inhalation soil In addition, the total xylene concentration confirmed in the soil sample collected at boring location OS-2 exceeds the Tier 2 Soil Saturation Limit (Csat) for Outdoor Inhalation. Laboratory analyses confirmed contaminant concentrations below applicable soil objectives in samples collected at soil boring locations OS-3 through OS-14. As a result, overburden soil within 5' of the surface and with contaminant concentrations below applicable objectives has been confirmed adjacent to the Parker's Gas & More east property boundary and on the adjoining properties east (Residential) and south opposite Highway 24 (Clayton City Park).

In addition to the overburden investigation, monitoring wells were recondition on August 13, 2013 in preparation for groundwater sample collection. On this date, approximately 1" of free product was observed in the MW-21 monitoring well located off-site in the Clayton City Park. An absorbent sock was also found in monitoring well MW-5 located on-site adjacent to the south property boundary and down-gradient from soil boring OS-2 (area of total xylene soil contamination exceeding the Tier 2 Soil Saturation Limit). The absorbent sock was removed from MW-5 and found to be fully saturated. Although the presence and saturation of the absorbent sock indicates a history of free product in the MW-5 monitoring well, no free product was observed in the well upon removal of the sock. An absorbent sock was placed in the MW-21 monitoring well on August 15, 2013. Monitoring well MW-5 was inspected on August 15, 2013. There was no free product observed in the well on this date.

On August 26, 2013, the absorbent sock was removed from MW-21. The well was purged dry and allowed to recharge overnight. On August 27, 2013, approximately 1/8" of free product was observed in monitoring well MW-21. As a result, the absorbent sock was returned to the well.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 3

On September 3, 2013, a 4" diameter recovery well (RW-1) was installed adjacent to monitoring well MW-21. The well was installed at a depth of approximately 15' below ground surface (bgs) and was constructed with Sch. 40 PVC materials consisting of a 10' slotted screen and 5' solid riser. A metal flush mount well protector was installed in concrete slightly above grade for protection and to divert surface run-off water.

On September 4, 2013, three (3) 2" diameter wells (FP-1 through FP-3) were installed in the Clayton City Park adjacent to the Highway 24 south ROW and upgradient from the RW-1 recovery well. The purpose of the FP-1 through FP-3 monitoring wells was to identify the extent of free product observed at monitoring well location MW-21. IEPA representatives Valerie Davis and James Malcom were present during the September 4, 2013 free product investigation activities.

The RW-1 and FP-1 through FP-3 wells were developed on September 5, 2013 and purged on September 6, 2013. Free product was not observed in the RW-1 recovery well, FP-1 through FP-3 observation wells or any groundwater monitoring well during the September 2013 free product investigation. As a result, it is reasonable to conclude that the extent of free product underlying the Clayton City Park is limited to an isolated area in the immediate vicinity of the MW-21 and RW-1 wells. The absorbent sock was returned to the MW-21 monitoring well.

Recovery well RW-1, observation wells FP-1 through FP-3 and monitoring well MW-21 were inspected for the presence of free product on October 4, 2013 and January 24, 2014. Free product was not observed on either date and the absorbent sock was returned to MW-21 following each inspection.

While preparing the monitoring wells for groundwater sample collection on October 15, 2014, approximately 1/8" of free product was observed in the MW-5 monitoring well. The well was purged dry and allowed to recharge overnight. Approximately 1/16" of free product was observed in MW-5 on October 16, 2014. The well was again purged dry on October 16 and 17, 2014. Free product was not observed in the RW-1 recovery well, the FP-1 through FP-3 observation wells or the MW-21 monitoring well during the October 2014 activities. It should be noted that groundwater depth observed in the RW-1, FP-1 through FP-3 and MW-21 was extremely shallow (i.e., <1' bgs) on October 15-17, 2014.

Approximately 1/8" of free product was again observed in the MW-5 monitoring well on January 1, 2015. Free product was not present in the MW-21 monitoring well on this date.

Groundwater removed from monitoring wells with free product was placed in IDOT-approved 55-gallons drums and temporarily staged on-site pending proper disposal.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 4

Laboratory analysis of groundwater samples collected on October 16, 2014 identify a significant reduction in contaminant concentrations since the March 6, 2009 sampling event. Contaminant concentrations exceeding Class I Groundwater Standards have been confirmed at just three (3) on-site monitoring well locations (MW-3 through MW-5) and two (2) off-site locations (MW-20 and MW-21).

2. Analytical results, chain-of-custody forms, and laboratory certifications;

Laboratory Reports, Chain of Custody forms and Laboratory Certifications relative to the analysis of soil and groundwater samples collected during the August 2013 overburden soil investigation and the October 2014 groundwater investigation are included in Appendix B.

3. Tables comparing analytical results to applicable remediation objectives;

Table 1 offers an analytical summary of soil samples collected from the excavation walls and floor during the 2006 soil abatement activities. The table includes applicable site-specific Tier 2 Industrial/Commercial and Construction Worker Inhalation soil objectives and Tier 2 Soil Saturation Limits.

Table 2 offers an analytical summary of samples collected from soil borings advanced to determine the vertical and lateral extent of soil contamination as a result of IEMA #951012. The table includes applicable on-site and off-site soil objectives.

Table 3 offers an analytical summary of soil samples collected during the August 2013 overburden soil investigation and applicable soil objectives.

Table 4 offers an analytical summary of samples collected during the October 2014 groundwater investigation.

4. Boring logs;

Boring Logs relative to the soil borings advanced during the overburden soil and free product investigations are included in Appendix C.

5. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:

a. Soil sample locations;

Soil sample locations are identified in Figure 1.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 5

b. Monitoring well locations;

The locations of groundwater monitoring wells are also depicted in Figure 1. Well Construction Logs are included in Appendix D.

c. Plumes of soil and groundwater contamination;

The estimated extent of soil contamination resulting from IEMA #951012 exceeding Tier 1 Residential objectives is identified in Figure 2. The estimated extent of groundwater contamination is identified in Figure 3. The estimated potential migratory extent or groundwater contamination exceeding Class I Groundwater Standards as a result of IEMA #951012 based on contaminant transport models modeling is identified in Figure 4.

E. Technical Information - Corrective Action Plan

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;

Based on analytical results obtained to date, soil and groundwater quality has been impacted by IEMA #951012. The impact resulting from IEMA #951012 requiring remedial action extends off-site onto adjoining properties east and south of Parker's Gas & More and into the East Outer Belt Drive ROW adjoining the south property boundary. In addition, isolated areas of free product have been identified on and off-site and soil with contaminant concentrations exceeding the total xylene Tier 2 Soil Saturation Limit has been confirmed in the vicinity of soil boring OS-2. This CAP proposes the excavation, transportation, and disposal of petroleum contaminated soil on and off-site exceeding applicable soil objectives and Soil Saturation Limits.

Areas of proposed soil abatement are identified in Figure 5 as Areas A though D. Areas A and B are located on-site and are subject to site specific Tier 2 Industrial/Commercial and Construction Worker Inhalation soil objectives as well as Tier 2 Soil Saturation Limits. Based on the analysis of soil samples collected from boring locations OS-1 through OS-4, there will be no removal/replacement of overburden soil in Area A. Overburden soil from 0-5' bgs will be removed in Area B and returned to the excavated area upon abatement of the underlying contaminated soil. Based on the depth of the 2006 excavation, Areas A and B could be excavated to a maximum depth of 16' bgs. However, the depth of the excavation will ultimately be determined (and limited) by groundwater elevation. Given the significant seasonal fluctuation in groundwater elevation observed at the Parker's Gas & More site, on-site soil abatement activities may be halted as shallow as 12' bgs.

Area C (adjoining residential property east of the Parker's Gas & More site) and Area D (located in the City of Clayton Park south of the site), are subject to the

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 6

most stringent Tier 1 Residential soil objectives. Based on the August 2013 soil investigation, overburden soil from 0-5' bgs can be removed in each area and returned to the excavations upon abatement of underlying contaminated soil. Soil abatement activities in Area C could be limited as described relative to Areas A and B. However, due to a significantly lower surface elevation compared to Areas A, B and C, soil abatement activities in Area D are not likely to exceed a depth of 10' bgs.

Use of the City of Clayton groundwater ordinance as an Institution Control will control potential exposure to the Groundwater Ingestion Exposure Route and the on-site Soil Component of the Groundwater Ingestion Exposure Route. accordance with the IEPA directive included in its January 25, 2012 decision letter, groundwater samples have been collected from all on-site and off-site monitoring wells for laboratory analysis to determine current groundwater contaminant concentrations. Contaminant transport models (i.e., Leachate and R26 Equations) have been revised based on the current contaminant levels to estimate the potential migratory extent of groundwater contamination resulting from IEMA #951012. Upon completion of the proposed soil abatement activities, eight (8) monitoring wells will be installed in the excavated areas. The wells will be constructed of 2" diameter Sch. 40 PVC and consist of a 10' slotted screen and 5' solid riser. The wells will be protected by a flush mount well protector placed in concrete slightly above-grade to divert surface water run-off. The proposed monitoring well locations are identified in Figure 6. Groundwater samples will be collected from the proposed monitoring wells and the existing MW-20 monitoring well (located in the Outer Belt Drive ROW) for BTEX and PNAs analysis. The analytical results will be used to determine the impact to groundwater quality as a result of the proposed soil abatement activities and to revise the contaminant transport models to ensure the potential migratory extent of groundwater contamination does not extend beyond the limits of the groundwater ordinance. The revised models will identify the impacted and/or potentially impacted properties such that the Property Owners (and the City of Clayton) can be notified of the Parker's Gas & More election to use the ordinance as an Institutional Control to exclude the Groundwater Ingestion and Soil Component of the The notice will be structured Groundwater Ingestion Exposures Pathways. similar to the Agency's template document included in Appendix E.

The revised contaminant transport models will also be used to define the extent of the Highway Authority Agreement between Parker's Gas & More and the Illinois Department of Transportation (IDOT) to control potential exposure to the soil and groundwater impact confirmed in the Outer Belt Drive (Highway 24) ROW.

Analytical results of the proposed soil and groundwater samples will be evaluated collectively to identify areas requiring evaluation/exclusion of the Indoor Inhalation Exposure Pathway. Upon completion of the proposed soil abatement activities and post-abatement groundwater investigation, the evaluation will identify areas within the remaining extent of groundwater contamination

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 7

> exceeding Class I Groundwater Standards overlain by soil with contaminant concentrations exceeding the most stringent Tier 1 Residential soil objective (regardless of Groundwater Ingestion and Soil Component of the Groundwater Ingestion Exposure Pathway exclusion). Once these areas are identified, the evaluation will focus on identifying areas in which the Indoor Inhalation Exposure Pathway can be excluded based on the presence of at least five (5) vertical feet of soil with contaminant concentrations below Tier 1 Residential objectives between the contaminated groundwater and ground surface or any potential receptor. It is anticipated that the Indoor Inhalation Exposure Pathway will be excluded in the proposed excavation areas since the placement of backfill material will provide the required minimum vertical separation between ground surface (and/or potential receptor) and the underlying contaminated groundwater. The proposed Highway Authority Agreement will provide exclusion of the Indoor Inhalation Exposure Pathway in the Outer Belt Drive ROW. unsaturated soil is subject to site-specific Tier 2 Industrial/Commercial and Construction Worker Outdoor Inhalation objectives, it is likely that exclusion of the Indoor Inhalation Exposure Pathway in on-site areas of overlapping groundwater and soil contamination will require further investigation. However, the proposed soil abatement and post-abatement groundwater investigation must be completed before a scope of work designed to investigate all on-site areas in which the pathway cannot be excluded based on the required vertical separation can be submitted to IEPA for review/approval.

a. The major components of the corrective action plan;

The major components proposed in this CAP consist of the following:

- Removal of overburden soil within the proposed on and off-site soil abatement areas and use of the same in the resulting excavations as backfill material,
- On and off-site abatement of soil exceeding applicable objectives,
- A post-abatement groundwater investigation to determine the impact on groundwater contaminant concentrations and if continued free product removal activities are necessary,
- Use of the City of Clayton groundwater ordinance to exclude the Groundwater Ingestion and Soil Component of the Groundwater Ingestion Exposure Pathways,
- Negotiation of a Highway Authority Agreement between Parker's Gas & More and IDOT to exclude all potential exposure pathways within the Outer Belt Drive ROW,

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 8

- Revising contaminant transport models to identify impacted and/or
 potentially impacted properties and the area of the Outer Belt Drive
 ROW that should be subject to the proposed Highway Authority
 Agreement,
- Notifying the City of Clayton and Owners of properties impacted, or potentially impacted, by IEMA #951012 of the Parker's Gas & More election to use the existing groundwater ordinance as an Institutional Control,
- An evaluation to determine if exclusion of the Indoor Inhalation Exposure Pathway requires additional investigation, and,
- Replacing the asphalt surface destroyed during the 2006 and proposed soil abatement activities.

Obviously, completion of the major components listed above will require the completion of multiple supporting tasks such as (but not necessarily limited negotiating access off-site properties, to) to coordinating/scheduling field activities and securing Contractors/service providers. It should be noted that a budget amendment may be necessary should IEPA demand the negotiation of Project Labor Agreements (PLAs) between Parker's Gas & More and its contractors/subcontractors. It should also be noted that the area subject to an IDOT Highway Authority Agreement is usually dictated by IDOT and is often exaggerated beyond the area identified as impacted, or potentially impacted, by laboratory analyses and/or contaminant transport modeling. In addition, IDOT Highway Authority Agreements have historically included conditions with associated potential liabilities and/or financial burdens that UST Owners/Operators are not comfortable accepting (i.e., unreasonable conditions as determined by the Owner/Operator). The proposal of a Highway Authority Agreement included in this CAP assumes IDOT will draft an agreement that is reasonable, mutually acceptable and that it (IDOT) will do so in a timely manner.

b. The scope of the problems to be addressed by the proposed corrective action;

The scope of work prosed in this CAP is designed to exclude all potential exposure pathways regarding the impact to soil and groundwater as a result of IEMA 951012 except the potential Indoor Inhalation Exposure Pathway. As previous addressed, exclusion of this potential pathway requires completion of the proposed scope of work and, depending upon the results, may require additional investigation.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 9

c. A schedule for implementation and completion of the plan;

The proposed overburden removal and soil abatement will be scheduled upon IEPA approval of this CAP and securing access to the off-site properties. The proposed post-abatement groundwater investigation will be performed within 90 days following completion of the soil abatement activities. Contaminant transport models will be revised upon completion of the proposed groundwater analysis. A request to enter into a Highway Authority Agreement will be submitted to IDOT once revised contaminant transport models identify the area of the Outer Belt Drive ROW impacted and/or potentially impacted by IEMA #951012. Depending upon the results of the proposed evaluation of the Indoor Inhalation Exposure Pathway, a CAP proposing either the exclusion of the pathway, or the activities necessary to exclude the pathway, will be submitted for IEPA review/approval.

Once access to the adjoining properties is secured, it is anticipated that the proposed overburden removal and soil abatement activities will begin within the following 60 to 90 days and that the activities will require twenty (20) business days to complete.

2. Identification of the remediation objectives proposed for the site;

Tier 1 Residential objectives are applicable to off-site unsaturated soil and site-specific Tier 2 Industrial/Commercial and Construction Worker Inhalation objectives apply to on-site unsaturated soil.

Although Class I Groundwater objectives apply on and off-site, potential exposure to contaminated groundwater and saturated soil is controlled by the City of Clayton groundwater ordinance.

Indoor Inhalation objectives are not being proposed at this time. This potential exposure pathway cannot be fully evaluated until the scope of work proposed in this CAP is completed.

3. A description of the remedial technologies selected;

Accessible unsaturated soil with contaminant concentrations exceeding applicable objectives will be remediated by means of conventional soil abatement and off-site disposal.

Potential exposure to saturated soil and groundwater exceeding applicable remedial objectives as a result of IEMA #951012 will be controlled by the City of Clayton groundwater ordinance.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 10

Based on the results of the June 2013 investigation of the overburden soil within the proposed areas of excavation, it appears that the upper 5' of soil in Areas B, C and D can be removed and returned to the excavations as backfill material.

The area within each proposed excavation has been calculated as follows:

Given the following factors:

- No overburden soil will be removed in Area A,
- Overburden soil from 0-5' bgs will be removed in Areas B, C and D and returned to the resulting excavations as backfill material,
- The maximum depths of the proposed excavations are estimated at 16' bgs in Areas A, B and C and 10' bgs in Area D (NOTE: Actual depths will be dictated by the depth at which groundwater is encountered)

The volume of contaminated soil excavated and transported for off-site disposal is estimated as follows:

The volume of overburden soil to be removed and returned to the excavation as backfill material following abatement of contaminated soil is estimated as follows:

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 11

The volume of backfill material obtained from an off-site source to be placed in the resulting excavations is estimated as follows:

Area A = 1,465 yds³ Area B = 1,685 yds³ Area C = 1,030 yds³ Area D = 1,000 yds³ Total 5,230 yds³

A Photoionization Detector (PID) will be used to guide the excavation activities in an effort to ensure only contaminated soils exceeding applicable objectives are abated.

As a result of the 2006 soil abatement activities and those proposed in this CAP, approximately 5,700 ft² of a 4" asphalt surface will require replacement. The area requiring replacement of the asphalt surface is identified in Figure 7.

Since the monitoring wells hadn't been sampled in several years, many were no longer readily identifiable. As a result, the use of a metal detector designed to detect ferrous metals such as those used to construct flush mount man-ways was necessary to reduce the time required to locate the monitoring wells. Bailers were used to purge groundwater from each monitoring well in an effort to recondition the monitoring wells prior to sample collection. Bailers were used during sample collection to transfer groundwater samples from the monitoring wells to properly preserved sample containers. Bailers were also used to remove contaminated water and free product from monitoring wells MW-5 and MW-21.

All samples (soil and groundwater) were/will be shipped under proper chain of custody to a NELAP accredited laboratory for BTEX and PNA analyses.

a. The feasibility of implementing the remedial technologies;

This CAP proposes removal of contaminated soils utilizing excavation, transportation, and disposal in an effort to abate unsaturated soils impacted by the petroleum release. Conventional soil abatement offers a timely and cost effective remedial solution in regard to the soil impact resulting from IEMA #951012. The removal of uncontaminated overburden soil and placement of the same as backfill material improves the feasibility of the proposed remedial plan by insuring only soil exceeding applicable objectives is transported to a proper disposal facility and minimizes backfill costs.

The threat of exposure to groundwater and saturated soil contamination resulting from IEMA #951012 is controlled by the City of Clayton groundwater ordinance. Use of the ordinance as an Institutional Control

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 12

offers a timely and cost effective remedial solution in regard to groundwater contamination resulting from IEMA #951012.

The proposed Highway Authority Agreement between Parker's Gas & More and IDOT will provide the control necessary to exclude all potential pathways in the Outer Belt Drive ROW as a result of IEMA #951012.

b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved;

Contaminated soil abatement is the most reliable and timely technology available to address petroleum contamination exceeding applicable soil objectives and/or Soil Saturation Limits on and off-site. This technology provides immediate results while remaining cost effective.

The proposed Institutional Controls (i.e., City of Clayton groundwater ordinance and IDOT Highway Authority Agreement) will limit the threat of exposure to groundwater, saturated soil and inaccessible unsaturated soil with contaminant concentrations exceeding applicable objectives until it is proven such controls are no longer necessary.

As previously addressed, additional activities necessary to exclude the Indoor Inhalation Exposure Pathway (if any) cannot be determined until the scope of work proposed in this CAP is completed.

c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;

Soil abatement activities will be scheduled upon IEPA approval of this CAP, landfill acceptance of the waste stream and securing access to off-site properties.

The City of Clayton groundwater ordinance was recently approved by IEPA as appropriate for use as an Institutional Control.

Historically, negotiating a Highway Authority Agreement with IDOT has exhausted 1.5 - 2.0 years or more. As a result, or should IDOT attempt to impose conditions of entering into a Highway Authority Agreement that are not acceptable to Parker's Gas & More, an evaluation of alternative solutions may prove necessary.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 13

4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;

Soil samples will be collected from the proposed excavations to confirm applicable remediation objectives have been met. Soil samples will be collected from the walls and floor of each excavation on 20 foot intervals. Soil samples will be collected from the lower third of the walls or from locations of obvious or suspected contamination. All samples will be transferred to properly preserved sample containers and shipped under standard chain of custody protocol to a NELAP accredited lab for BTEX and PNAs analysis.

5. A description of the current and projected future uses of the site;

Parker's Gas & More is currently an unoccupied commercial property. Given the proposed on-site use of Tier 2 Industrial/Commercial soil objectives, any future use of the property will also be Commercial at least until it can be proven that the Land Use Restriction prohibiting any Residential use (as is required when using Industrial/Commercial soil objectives) is no longer necessary.

6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives;

Institutional Controls proposed in this CAP consist of the existing City of Clayton groundwater ordinance, the proposed Highway Authority Agreement with IDOT, and a Land Use Restriction preventing Residential use of the property. Upon completion of the scope of work proposed in this CAP, should an evaluation of the Indoor Inhalation Exposure Pathway conclude Engineered Barriers or additional Institutional Controls are necessary, such barriers and/or controls will be proposed in a CAP submitted for IEPA review/approval.

a. An assessment of their long-term reliability;

IEPA approval of the City of Clayton groundwater ordinance as an Institutional Control confirms it (IEPA) considers the long-term reliability of the ordinance as capable of achieving the minimum requirements of Title XVI.

Controls such as the proposed Highway Authority Agreement typically provide the long-term reliability necessary to support the issue of a No Further Remediation (NFR) Letter.

Controls such as the proposed Land Use Restriction will remain conditional to the No Further Remediation (NFR) Letter issued by IEPA in response to its approval of a Corrective Action Completion Report

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 14

(CACR) and recorded as a permanent record attached to the property deed until it is proven the Control(s) is no longer necessary.

b. Operating and maintenance plans;

The remedial action and Institutional Controls proposed in this CAP do not require operation and/or maintenance plans.

c. Maps showing area covered by barriers and institutional controls;

Please refer to Figure 8: Institutional Controls Map.

7. The water supply well survey;

The IEPA Source Water Assessment Program (SWAP) was utilized to address the requirements of the water supply well survey requirements.

a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;

A private well is located west of the site. The well will be visually located and measured to determine the exact distance from the Parker's Gas & More leaking UST site. As a result of the City of Clayton groundwater ordinance, it is assumed the well is abandoned or inactive. Please refer to Figures 5 & 6 of the *Amended CAP* received by the Agency on March 4, 2009 for information regarding the potable water supply well survey.

b. Map(s) showing regulated recharge areas and wellhead protection areas;

Please refer to Figures 5 & 6 of the *Amended CAP* received by the Agency on March 4, 2009 for information regarding the potable water supply well survey.

c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

Refer to Figure 3.

d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

Refer to Figure 4. Please refer to Appendix A for SSL modeling, SSL Input Parameter sheet, and the RBCA Input Parameter sheet.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 15

e. Tables listing the setback zone for each community water supply well and other potable water supply wells;

Please refer to the March 13, 2007 ACAP submitted by USI.

f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified;

Please refer to the March 13, 2007 ACAP submitted by USI.

g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;

The Professional Engineer certification by USI included in the previously submitted *CAP* satisfies this requirement.

8. Appendices:

a. References and data sources report;

Appendix A: TACO Equations

Appendix B: Laboratory Reports, Chain of Custody Forms & Laboratory

Certifications

Appendix C: Boring Logs

Appendix D: Well Completion Forms
Appendix E: Property Owner Notification

Appendix F: Budget

b. Field logs, well logs, and reports of laboratory analyses;

Please refer to Section 8.a. above.

9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;

Figure 1: Sample Locations

Figure 2: Estimated Soil Plume Map

Figure 3: Estimated Groundwater Plume Map

Figure 4: R-26 Modeling Map

Figure 5: Proposed Excavation Map

Figure 6: Proposed Monitoring Well Locations

Figure 7: Asphalt Replacement Map Figure 8: Institutional Controls Map

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 16

Figure 9: Groundwater Flow Map

Figure 10: Source Width & Source Length

10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;

Not applicable.

11. A description of bench/pilot studies;

Not applicable

12. Cost comparison between proposed method of remediation and other methods of remediation;

Not applicable

13. For the proposed Tier 2 or 3 remediation objectives, provide the following:

a. The equations used;

Equations utilized to calculate Tier 2 Objectives are S2, S3, S6, S7, S8, S10, S18, S19, S20, S21, S24, S25, and S29. Equations utilized to obtain modeled extent of groundwater are R16, R17, R18, R19, R21, R22, R23, and R26.

b. A discussion of how input variables were determined;

The following input variables were obtained by physical analyses of the Shelby Tube ST-1 soil core: bulk density (99.2 pcf), soil particle density (2.74), the sieve size analysis results plotted on the USDA Soil Classification Triangle to determine that the site specific soil type is a Silt Clay Loam, and a moisture content of 26.3%. Pursuant to IAC Section 742, Appendix C, Table K, a silt clay loam has a K_s value of 13 and a 1/(2b+3) value of 0.054.

Hydraulic gradient was determined by using the groundwater flow data from August 1, 2008. Iso-elevation lines of 96.5 ft and 91 ft were utilized with a distance of 195 ft for a hydraulic gradient, i, of 0.03 ft/ft.

The variable "source length parallel to groundwater flow", (L), of 265 ft was determined by utilizing a conservative distance of the soil plume based upon clean soil samples at soil boring BH-2 and BH-35.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 17

The variable "source width perpendicular to groundwater flow", (S_d), was determined using the 293 ft. separating monitoring wells MW-13 and MW-16.

c. Map(s) depicting distances used in equations;

Refer to Figure 10.

d. Calculations;

Please refer to Appendix A for a copy of the calculations associated with calculating Tier 2 objectives.

14. Provide documentation to demonstrate the following for alternative technologies;

No alternative technologies are proposed.

a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;

Not applicable.

b. The proposed alternative technology will not adversely affect human health and safety or the environment;

Not applicable.

c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;

Not applicable.

d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;

Not applicable.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 18

e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a);

Not applicable.

f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

Not applicable.

F. Exposure Pathway Exclusion

Provide the following:

- 1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;

The concentration of any organic contaminant of concern shall not exceed the attenuation capacity of the soil as determined under Section 742.215 (742.305(a)). Based on the site specific natural organic carbon fraction (foc) analysis of a soil sample collected from soil boring location ST-1, the calculated site specific attenuation capacity value for the Parker's Gas & More site is 10,900 mg/kg. Each discrete sampling point contained a sum of the organic contaminant concentrations less than the site specific attenuation capacity. The soil attenuation capacity at the Parker's Gas & More site has not been exceeded.

b. Soil saturation limit will not be exceeded for any of the organic contaminants;

As previously addressed, the total xylenes concentration confirmed at boring location OS-2 (at a depth of 3'- 4' bgs exceeds the site-specific Tier 2 Soil Saturation Limit.

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 19

c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;

Soil containing contaminants of concern shall not exhibit any of the characteristics of reactivity for hazardous waste as determined by 35 IAC 721.123 (742.305(c)).

The petroleum contaminated soil at this site does not exhibit any of the reactivity characteristics of hazardous waste.

d. Contaminated soils do not exhibit a pH \leq 2.0 or \geq 12.5;

Laboratory analysis has confirmed a soil pH of 5.86.

e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124;

Pursuant to 35 IAC 742, Subpart C, Section 742.30(e), soils shall not exhibit any of the characteristics of toxicity for hazardous waste as determined by 35 IAC 721.124 if they contain: arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver (or their salts). Please refer to the approved amended CAP (submitted by USI) received by the IEPA on March 4, 2009 for the demonstration eliminating lead as an indicator contaminant relative to IEMA #951012.

2. A discussion of how any exposure pathways are to be excluded;

The City of Clayton groundwater ordinance controls potential exposure to the Groundwater Ingestion and Soil Component to the Groundwater Ingestion pathways. Abatement of accessible unsaturated soil with contaminant concentrations exceeding applicable Inhalation and/or Construction Worker Inhalation objectives excludes the Outdoor Inhalation Exposure Pathways. The proposed Highway Authority Agreement excludes all potential exposure pathways in the area of the Outer Belt Drive ROW impacted by IEMA #951012. If necessary, additional investigation of the Indoor Inhalation Exposure Pathway will be proposed in a CAP submitted for IEPA review/approval once the scope of work proposed in this CAP is completed and the results are evaluated in regard to exclusion of this pathway.

A CAP reporting the results of the proposed soil abatement and post-abatement groundwater investigation and data supporting the exclusion of the Indoor Inhalation Exposure Pathway (or activities necessary to exclude the pathway) will be submitted for IEPA review prior to the submittal of an application requesting reimbursement of the costs incurred to complete these activities.

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Corrective Action Plan & Free Product Removal Report

Corrective Action Plan & Free Product Removal Report Parker's Gas & More LUST #951012 Page 20

A budget to complete the scopes of work reported and proposed in this CAP is included in Appendix F.

TABLE 1
Excavation Soil Analytical Summary

(Reported in ppm)

Sample_ID	Sample_Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
Tier 1	Residential Obje	ctives	0.03	12	13	5.60	1.8
Tier 2 Indus	strial/Commercia	l Objectives	15,79	1034.07 ^{cw}	632.31 ^{cw}	279.78 ^{cw}	7.21 ^{cw}
Tier 2 So	il Saturation Lim	its (Csat)	1389	1034	632	502	NA
F-1	16'	1/24/2006	0.28	0.019	0.431	0.7	0.584
F-2	16'	1/25/2006	0.0035	0.0035	0.0035	0.0105	0.571
F-3	16'	1/26/2006	0.00339	0.00339	0.00339	0.0102	0.569
F-4	16'	1/26/2006	0.00354	0.00354	0.00354	0.0106	0.577
F-5	16'	1/27/2006	0.0033	0.0033	0.0033	0.0099	0.566
F-6	16'	2/2/2006	0.00316	0.00438	0.00316	0.00948	0.557
F-7	16'	2/2/2006	0.00367	0.00619	0.00324	0.00974	0.556
F-8	16'	1/31/2006	0.00332	0.00474	0.00332	0.0100	0.561
F-9	16'	1/31/2006	0.00330	0.00397	0.00330	0.00989	0.568
F-10	16'	2/3/2006	0.00397	0.00773	0.00362	0.0109	0.568
F-11	16'	2/3/2006	0.00378	0.00656	0.00344	0.0103	0.555
F-12	16'	2/6/2006	0.00352	0.00352	0.00352	0.0106	0.564
W-1	8'	1/24/2006	0.161	0.0034	4.05	0.35	0.565
W-2	8'	1/24/2006	1,21	0.0625	8.46	24.1	0.575
W-3	8'	1/25/2006	0.552	0.37	0.909	4.4	0.572
W-4	8'	1/25/2006	0.34	0.0379	1.66	0.933	4.24
W-5	8'	1/25/2006	1.02	0.0196	5.85	1.88	0.443
W-6	8'	1/26/2006	5.15	1.39	20.7	35.1	0.587
W-7	8'	1/27/2006	8.62	5.83	14.7	51.7	0.577
W-8	8'	1/27/2006	37.7	208	57	271	1.14
W-9	8'	1/27/2006	24.3	188	59.5	289	1.53
W-10	8'	2/2/2006	3.54	2.90	16.5	41.3	0.848
W-11	8'	2/2/2006	15.4	52.7	14.7	58.1	1.83
W-12	8'	2/2/2006	11.6	72.3	16.7	66.7	0.755
W-13	8'	2/2/2006	2.08	2.22	0.475	2.14	0.563
W-14	8'	2/3/2006	22.3	114	30.6	155	1.94
W-15	8'	2/3/2006	7.40	7.21	0.68	3.33	0.568
W-16	8'	2/6/2006	10.40	83.20	31.10	148	0.569
W-17	8'	2/6/2006	6.12	31.1	10	47.2	0.569
W-18	8'	2/6/2006	11.5	56.6	13.3	61.8	0.569

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective

CW - Construction Worker Outdoor Inhalation Objective

TABLE 2 Site Investigation Soil Analytical Summary (Reported in ppm)

Sample 1D	Location	Sample Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene	Naphthalene
7	l'ier 1 Residenti	al Soil Objective		0.03	12	13	5.6°	0.09	1.8
Tier 2	Industrial/Com	mercial Soil Obj	ective	15.79	1034.07 ^{cs}	632.31	279.78	NA	7.21 ^{c#}
т	er 2 Soil Satur	ation Limit (Csat)	1389	1034	632	502	NA	NA
BH-1A	Onsite	4'	12/18/2007	0.00372	0.00372	0.00372	0.0112	0.057	ND
BH-1B	Onsite	8,	12/18/2007	0.00372	0.00372	0.00352	0.0105	0,013	ND
BH-1C	Onsite	13'	12/18/2007	0.00394	0.00394	0.00394	0.0118	0,0131	ND
BH-2A	Onsite	4'	12/18/2007	0.00392	0.00392	0.00392	0,0118	0.0133	ND
BH-2B	Onsite	8,	12/18/2007	0.00341	0.00341	0.00341	0.0102	0.0129	ND
BH-2C	Onsite	14'	12/18/2007	0.00354	0.00354	0.00354	0.0106	0.013	ND
BH-6A	Onsite	3'	7/28/2008	0.00431	0.00431	0.00431	0.0129	0.0135	ND
BH-6B	Onsite	9,	7/28/2008	0.233	0.182	2.3	5.31	0.0133	ND
BH-6C	Onsite	13'	7/28/2008	0.146	0.00359	0.227	0.0385	0.0129	ND
BH-7A	Onsite	3'	7/28/2008	0.0033	0.0033	0.0033	0.00991	0.1000	ND
BH-7B	Onsite	12'	7/28/2008	8,42	68.5	27,4	142	0.0131	ND
BH-8A	Onsite	3'	7/28/2008	0.00368	0.00368	0.00368	0.011	0.0130	ND
BH-8B	Onsite	9'	7/28/2008	0.00449	0.00449	0.00449	0.0135	0.0146	ND
BH-8C	Onsite	13'	7/28/2008	0.0044	0.0044	0.0044	0.0132	0.0129	ND
BH-16A	Onsite	4-5'	3/4/2009	4.81	26.8	6.04	37.2	0.0128	ND
BH-16B	Onsite	7-8'	3/4/2009	5.81	45,8	10.2	99.1	0.0128	2,58
BH-16C	Onsite	12-13'	3/4/2009	7.45	37.2	12.4	65.9	0.0110	1,42
BH-17A	Onsite	4-5'	3/4/2009	0.00374	0.00374	0.00374	0.0112	0.0129	ND
BH-17B	Onsite	7-8'	3/4/2009	0.0037	0.0037	0.0157	0.0037	0.0124	ND
BH-17C	Onsite	13-14'	3/4/2009	0.00327	0.00327	0.0254	0.011	0.0119	ND
BH-18A	Onsite	4-5'	3/4/2009	0.00361	0.00361	0.00361	0.0108	0.0130	ND
BH-18B	Onsite	7-8'	3/4/2009	0,00368	0.00368	0.00368	0.011	0.0127	ND
BH-18C	Onsite	12-13'	3/4/2009	0.00351	0.00351	0.00351	0.0105	0.0127	ND
BH-19A	Onsite	4-5'	3/4/2009	0.00622	0.00428	0.00428	0.0129	0.0133	ND
BH-19B	Onsite	7-8'	3/4/2009	0.00366	0.00366	0.00366	0.011	0,0127	ND
BH-19C	Onsite	12-13'	3/4/2009	0.00325	0.00325	0.00325	0.00974	0.0128	ND
BH-20A	Onsite	4-5'	3/4/2009	0.00368	0.00368	0.00368	0.0116	0,0135	ND
BH-20B	Onsite	9-10'	3/4/2009	8.19	89,7	21,1	116	0.0129	ND
BH-20C	Onsite	11-12'	3/4/2009	7,64	23.5	6.72	35.2	0.0128	ND
BH-21A	Onsite	4-5'	3/4/2009	4,31	27.8	8.48	80.8	0.0129	0.9690_
BH-21B	Onsite	7-8'	3/4/2009	17.6	43,5	24.1	124	0.0117	1.06
BH-21C	Onsite	12-13'	3/4/2009	0.0121	0.0796	2.68	0.372	0.0130	ND
BH-23A	Onsite	4-5'	3/4/2009	0.017	0.00381	0.00381	0.0114	0.0129	ИD
BH-23B	Onsite	9-10'	3/4/2009	2.71	1.89	1.43	6.73	0.0125	ND
BH-23C	Onsite	12-13'	3/4/2009	2.56	0.0752	0.419	0,341	0.0119	ND
BH-24A	Onsite	4-5'	3/4/2009	0.00345	0.00352	0.00345	0.104	0.0124	ND_
BH-24B	Onsite	7-8'	3/4/2009	0.00404	0.00404	0.00404	0.0121	0.0136	ND
BH-24C	Onsite	12-13'	3/4/2009	0.00357	0.00357	0.00357	0.013	0.0107	ND

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective CW - Construction Worker Outdoor Inhalation Objective

TABLE 2 (continued) Site Investigation Soil Analytical Summary (Reported in ppm)

Sample 1D	Location	Sample Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene	Naphthalene
	lier I Residenti	al Soil Objective		0.03	12	13	5.6°	0.09	1.8
T	ier 1 Soil Satura	tion Limit (Csat)	800	580	350	280	NA	NA
BH-3A	Right of way	4'	12/18/2007	0.00367	0.00367	0.00367	0.011	0.013	ND
BH-3B	Right of way	8'	12/18/2007	1.28	0.0936	0.0917	0.334	0.028	ND
BH-3C	Right of way	13'	12/18/2007	5.27	24.8	7.13	41.4	0.013	ND
BH-4A	Right of way	4'	12/18/2007	0.0038	0.0038	0.0038	0.0114	0.0134	ND
BH-4B	Right of way	9'	12/18/2007	0.03	0.004	1	2.2	0.013	ND
BH-4C	Right of way	14'	12/18/2007	0,09	0.00342	0.182	0.306	0,0131	ND
BH-5A	Right of way	4'	12/18/2007	0.00341	0.00341	0.00341	0.0102	0.0125	ND
BH-5B	Right of way	9'	12/18/2007	0.00335	0.00335	0.00335	0,0101	0.0128	ND
BH-5C	Right of way	14'	12/18/2007	0.00355	0.00355	0.00355	0.0107	0,0131	ND
BH-10A	Right of way	3'	7/28/2008	0.00401	0.00401	0.00401	0.012	0.0136	ND
BH-10B	Right of way	9'	7/28/2008	1.9	2.64	0.302	1.56	0.0127	ND
BH-10C	Right of way	13'	7/28/2008	7.38	20.9	4.01	20,1	0.0124	ND
BH-25A	Right of way	9-10'	3/5/2009	0.00366	0.00366	0.00366	0.011	0.0127	ND
BH-25B	Right of way	14-15'	3/5/2009	0.00549	0.00739	0.0269	0.0304	0.0130	ND
BH-14A	Offsite to East	4-5'	3/4/2009	0.00404	0.00404	0.00404	0.0121	0.0134	ND
BH-14B	Offsite to East	7-8	3/4/2009	0,545	0.101	4.17	23.4	0,0128	ND
BH-14C	Offsite to East	12-13'	3/4/2009	0.00335	0,00335	0.00335	0.0101	0.0112	ND
BH-15A	Offsite to East	4-5'	3/4/2009	0.00385	0.00385	0.00385	0.0115	0.0129	ND
BH-15B	Offsite to East	7-8'	3/4/2009	0.00361	0.00361	0.00361	0.0108	0.0131	ND
BH-15C	Offsite to East	12-13'	3/4/2009	0.00377	0.00377	0.00377	0,0113	0.0124	ND
BH-22A	Offsite to East	4-5'	3/4/2009	0.0134	0.0373	0.0322	0.153	0.0139	ND
BH-22B	Offsite to East	7-8'	3/4/2009	0.012	0.00359	0.0411	0.0313	0.0129	ND
BH-22C	Offsite to East	12-13'	3/4/2009	0,00309	0,00309	0,0035	0.00927	0.0115	ND
BH-33A	Offsite to East	4-5'	3/5/2009	0.00391	0.00391	0.00391	0.0117	0.0130	ND
BH-33B	Offsite to East	7-8'	3/5/2009	0.00419	0.00419	0.00419	0.0126	0.0135	ND
BH-34A	Offsite to East	4-5'	3/5/2009	0,00384	0.00384	0.00384	0.0115	0.0130	ND
BH-34B	Offsite to East	7-8'	3/5/2009	0.00377	0.00377	0.00377	0.0113	0.0130	ND
BH-35	Offsite to East	7-8'	4/7/2009	0,00367	0.00367	0.00367	0,011	0.0132	ND
BH-13A	Offsite Park	3'	7/29/2008	0.00364	0.00364	0.00364	0.0109	0.0129	ND
BH-13B	Offsite Park	7'	7/29/2008	0,00364	0.00364	0.00364	0.012	0.0129	ND
BH-13C	Offsite Park	13'	7/29/2008	0.00354	0.00354	0.00354	0.012	0.0128	ND
BH-26A	Offsite Park	4-5'	3/5/2009	0.106	0.305	0.00334	2.15	0.0125	ND
BH-26B	Offsite Park	7-8'	3/5/2009	4,64	18.7	3.1	15.9	0.0127	0.6310
BH-27A	Offsite Park	9-10'	3/5/2009	3.38	15	2.99	16.6	0.0121	ND
BH-27B	Offsite Park	12-13'	3/5/2009	0,00317	0.00317	0.00317	0.00951	0.0117	ND
BH-28A	Offsite Park	9-10'	3/5/2009	0.00317	0.00312	0.00317	0.00935	0.0122	ND
BH-28B	Offsite Park	12-13'	3/5/2009	0.00462	0.00273	0.00273	0.00818	0,0112	ND
BH-29	Offsite Park	7-8'	3/5/2009	0,00366	0.00366	0.00366	0.011	0.0129	ND
BH-30A	Offsite Park	7-8'	3/5/2009	0.00332	0.00332	0.00332	0.00996	0,0122	ND
BH-30B	Offsite Park	12-13'	3/5/2009	0.00281	0.00281	0.00281	0.00843	0.0120	ND
BH-31A	Offsite Park	7-8'	3/5/2009	0,00291	0.00291	0,00291	0.00872	0.0120	ND
BH-31B	Offsite Park	12-13'	3/5/2009	0.00353	0.00353	0.00353	0.0106	0.0121	ND
BH-32A	Offsite Park	7-8'	3/5/2009	0.0035	0.0035	0.0035	0.0105	0.0126	ND
BH-32B	Offsite Park	10-11	3/5/2009	0.0036	0.0036	0,0036	0.0108	0.0125	ND
BH-36	Offsite Park	4-5'	4/7/2009	0.146	0.176	7.31	34,1	0.0129	ND
BH-37	Offsite Park	7-8'	4/7/2009	0.00383	0.00383	0,00383	0,0115	0.0130	ND
Comple III		Deta	- 11	POC4/					
Sample ID	I	Date	pН	FOC%					

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Sample location exceeding applicable objective but collected at or below depth of groundwater

CW - Construction Worker Outdoor Inhalation Objective

TABLE 3
Overburden Soil Analytical Summary

(Reported in ppm) Sample_ID Sample Depth Date Benzene Toluene Ethylbenzene Total Xylenes Naphthalene Tier 1 Residential Soil Objective 12 0.03 13 5.60 1.8 7.21^{cw} Tier 2 Industrial/Commercial Oil Objective 632.31^{cw} 279.78^{cw} 15.79 1034.07^{cw} Tier 2 Soil Saturation Limit (Csat) 1389 1034 632 502 NA On-Site OS-1 3' - 4' 8/13/2013 18.1 160 41.2 235 0.1 OS-2* 3'-4' 8/13/2013 37.9 367 117 653* 0.162 OS-3 4' - 5' 8/13/2013 ND 0.0016 ND 0.0013 0.007 0.0011 ND OS-4 3' - 4' 8/13/2013 ND ND ND OS-5 4' - 5' 8/13/2013 ND ND ND ND ND Off-Site 4' - 5' 8/13/2013 ND ND ND ND ND OS-6 8/13/2013 ND 0.0011 ND ND ND OS-7 4' - 5' OS-8 4' - 5' 8/13/2013 ND ND ND ND ND ND OS-9 4' - 5' 8/13/2013 ND ND ND ND OS-10 4' - 5' 8/13/2013 ND 0.0014 ND ND ND 8/13/2013 OS-11 4' - 5' ND 0.0009 ND ND ND \overline{ND} OS-12 4' - 5' 8/13/2013 $\overline{\mathsf{ND}}$ ND ND ND OS-13 8' - 9' 8/13/2013 ND ND ND ND ND 8/13/2013 ND 0.0009 ND ND OS-14 4' - 5' ND

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective

* - Exceeds Applicable Tier 2 Soil Saturation Limit (C_{sat})

CW - Construction Worker Outdoor Inhalation Objective

TABLE 3 (continued)

Overburden Soil Analytical Summary (Reported in ppm)

Şanı	JE ID Sami	he Debth Date	Acette	philene	enaphthy	kene Hracene	Banth Bent	De Bente	Dhorauth Benti	Bereigh Bereigh	A fluorante	gene Jihe	nd s hand	Harthere	rene Inde	nod 2.7cd	JAN Phe	I.Buthrene Pylene
	ier I Resi Stringe anup Ob		570	88	12,000	0.90	0.09	0.90	23,000	9.00	88	0.09	3,100	260	0.90	8.1	200	2,300
OS-1	3' - 4'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.1	0.014	0.006
OS-2	3' - 4'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.162	\blacksquare	ND
OS-3	4' - 5'	8/13/2014	ND	ND	ND	0.004	ND	0.003	ND	ND	ND	ND	0.004	ND	ND	0.007	ND	0.004
OS-4	3' - 4'	8/13/2014	ND	ND	ND	0.006	0.004	0.006	0.004	ND	0.004	ND	0.012	ND	ND	ND	0.004	0.01
OS-5	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	_ND
OS-6	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-7	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-8	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-9	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-10	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-11	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-12_	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-13	8' - 9'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-14	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
October 2014 Groundwater Analytical Summary
(Reported in ppm)

Sample_ID	Date_	Benzene	Toluene	Ethylbenzene	Total Xylenes
Class I Grounds	water Standard	0.005	1	0.7	10
MW-1	10/16/2014	ND	ND	ND	ND
MW-2	10/16/2014	ND	ND	ND	ND
MW-3	10/16/2014	0.342	ND	0.014	0.0904
MW-4	10/16/2014	0.809	0.011	0.019	0.048
MW-5	10/16/2014	7	16.4	2.54	15.2
MW-9	10/16/2014	ND	ND	ND	ND
MW-10	10/16/2014	ND	ND	ND	ND
MW-11	10/16/2014	ND	ND	ND	ND
MW-12	10/16/2014	ND	ND	ND	ND
MW-13	10/16/2014	ND	ND	ND	ND
MW-14	10/16/2014	ND	ND	ND	ND
MW-15	10/16/2014	ND	ND	ND	ND
MW-16	10/16/2014	ND	ND	ND	ND
MW-17	10/16/2014	ND	ND	ND	ND
MW-18	10/16/2014	ND	ND	ND	ND
MW-19	10/16/2014	ND	ND	ND	ND
MW-20	10/16/2014	0.0658	ND	0.044	0.056
MW-21	10/16/2014	0.38	0.634	0.343	3.58
MW-22	10/16/2014	0.002	ND	0.0015	ND
MW-23	10/16/2014	0.0006	ND	ND	ND
MW-24	10/16/2014	ND	ND	ND	ND
MW-25	10/16/2014	ND	ND	ND	ND
MW-26	10/16/2014	ND	ND	ND	ND

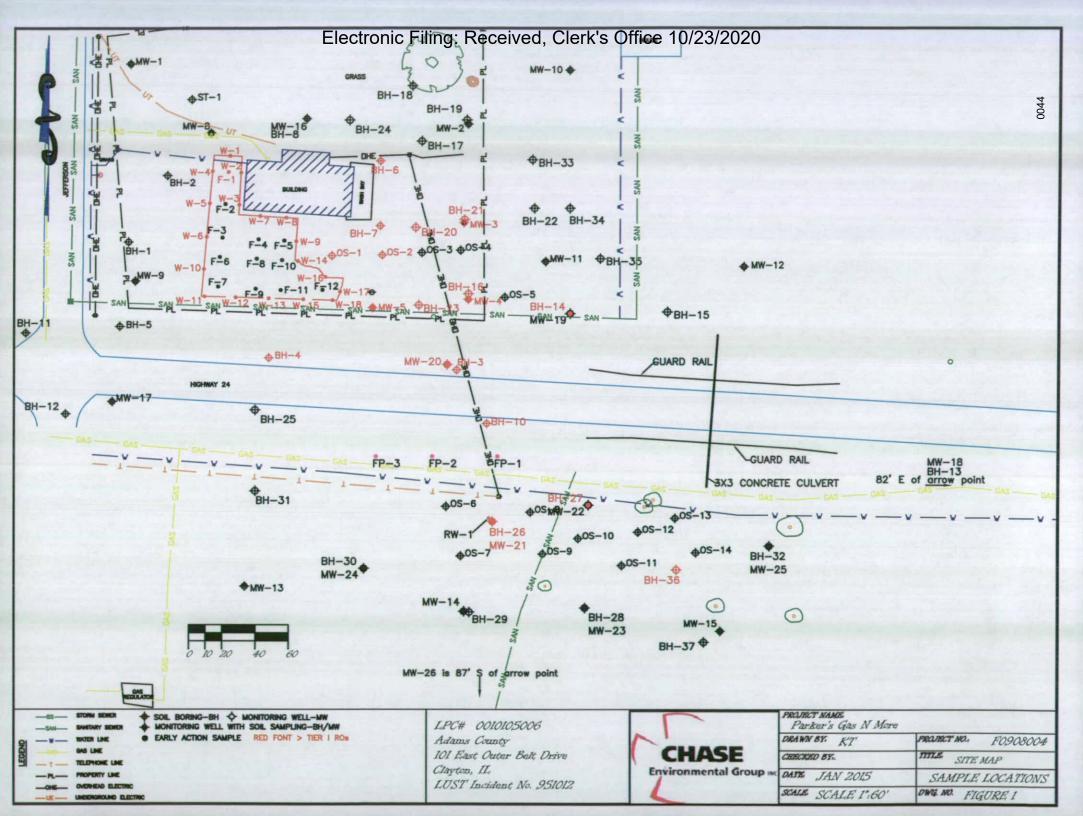
BOLD: Exceeds Class I Groundwater Standard

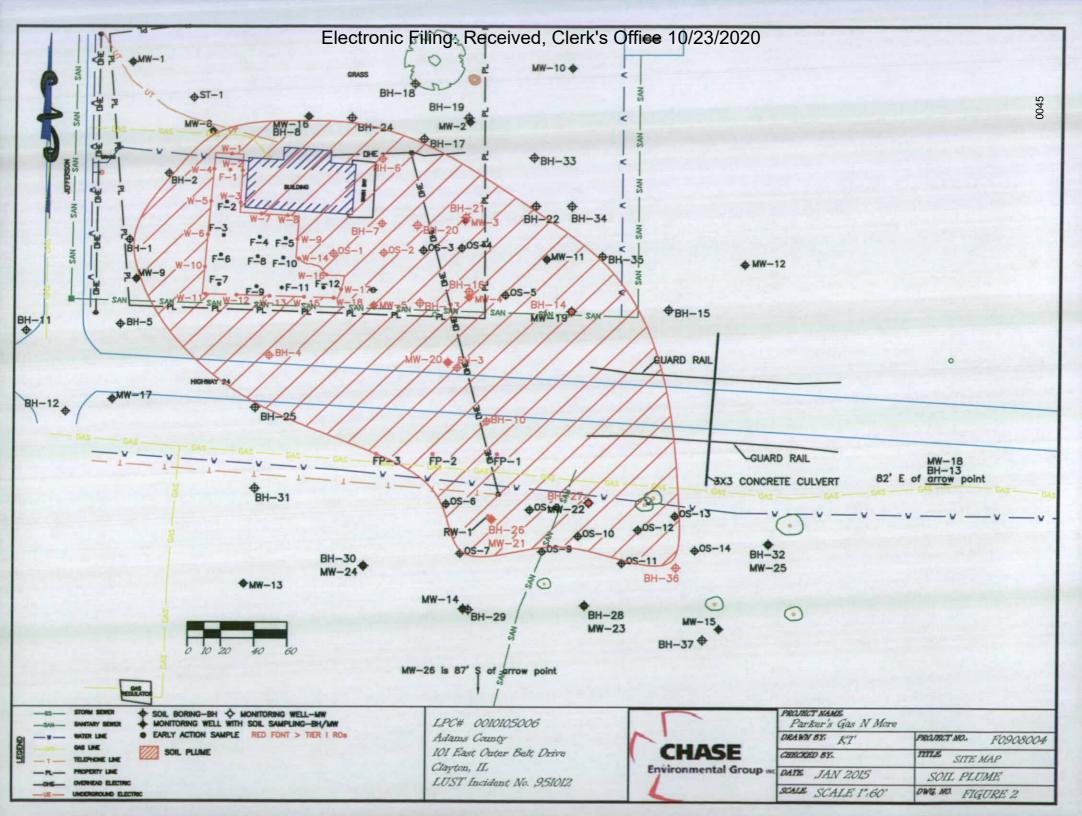
ND -- Not Detected

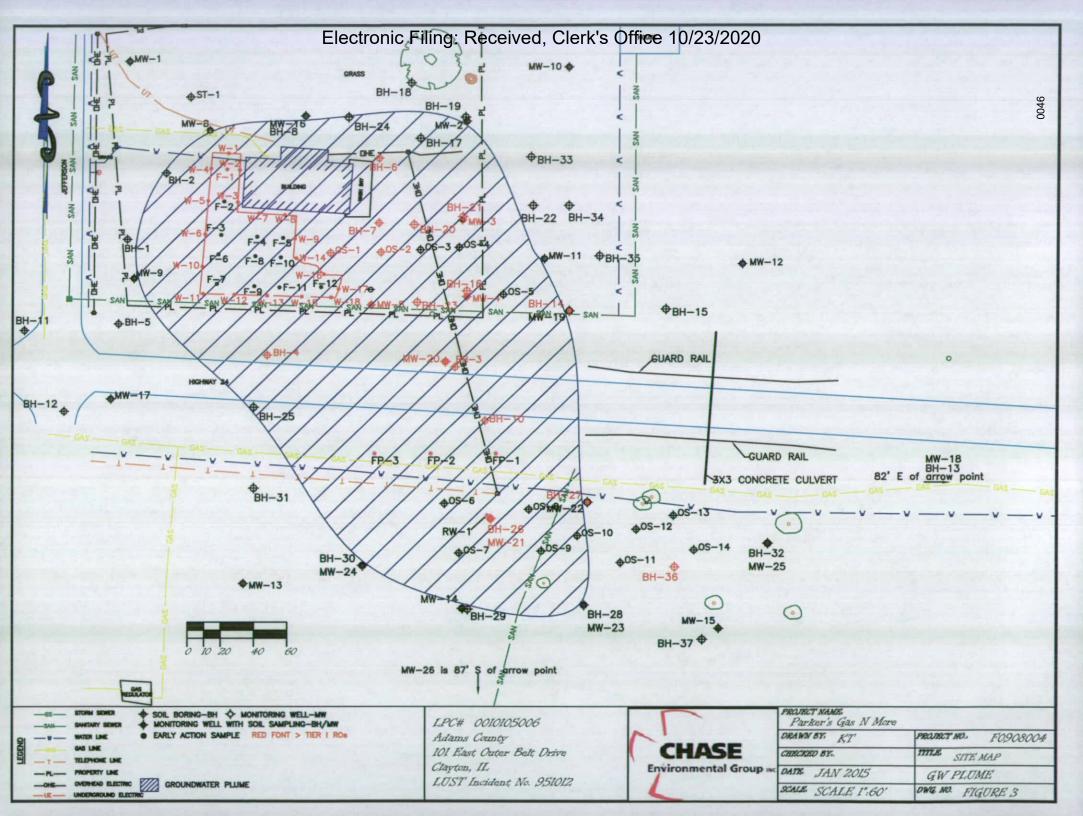
TABLE 4 (continued) GW PNA Analytical Summary (Reported in ppm)

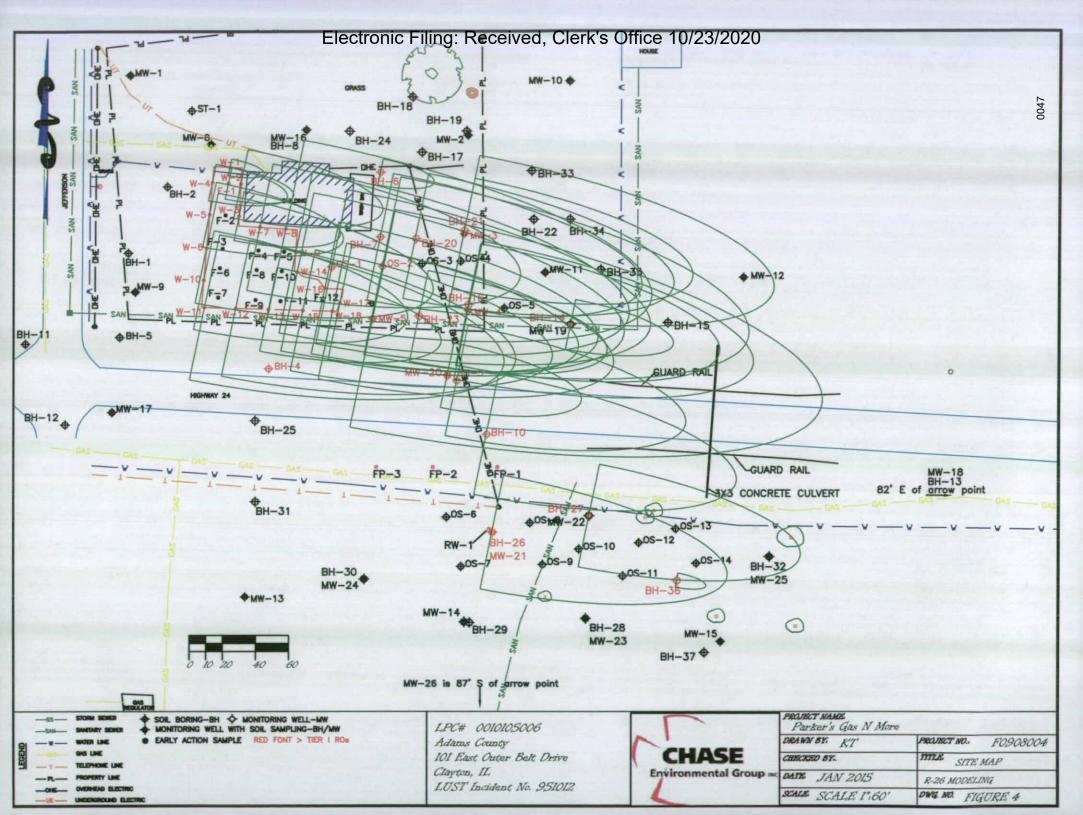
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Sattl	Je ID Date	Acensi	thene Acensi	July lene	gentode 1	nthracetrota	Prene Berind	tunt str. Rentale	A. Hertoda's	Jugrat.	he Juberale	Planting	nthene Fluores	e Indenol	, 2.3 co, h	nsiene Phensni	inrede Pyrede
C Grou	lass I ndwater ndard	0.42	0.21	2.1	0.00013	0.0002	0.00018	0.21	0.00017	0.0015	0.0003	0.28	0.28	0.00043	0.14	0.21	0.21
MW-I	10/16/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND
MW-3	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	ND	ND
MW-4	10/16/14	ND	ND	ND	ND 0.00004	ND	ND 0.00055	ND 0.00082	ND 0.00012	ND 0.0007	ND ND	ND 0.0025	ND 0.023	ND 0.00015	0.0035	ND 0.0211	ND 0.007
MW-5 MW-9	10/16/14	ND 0.0002	ND_ ND	0,0069 ND	0.00094 ND	0.00058 ND	0.00055 ND	ND	ND	ND	ND	ND	0.00019	ND	3 0.0145	0.00024	ND
MW-10	10/16/14	ND	ND_	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND
MW-11	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND
MW-12	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-17	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-18	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-19	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-20	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	ND	ND
MW-21	10/16/14	0.0007	ND	0.0003	0.00009	ND	ND_	_ND_	ND	ND	ND	ND	0.00078	ND	0,13	0.00078	0.0003
MW-22	10/16/14	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-23	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-24	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-25	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-26	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

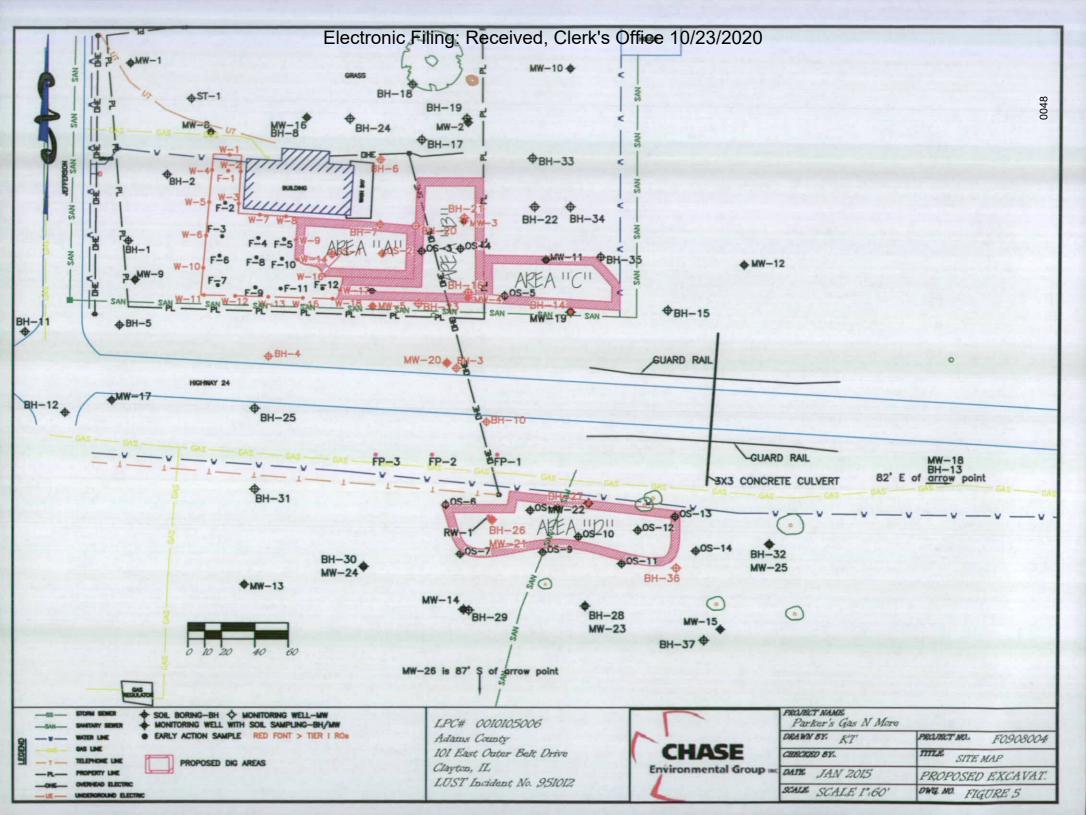
Bold - Exceeds Class I Groundwater Standard

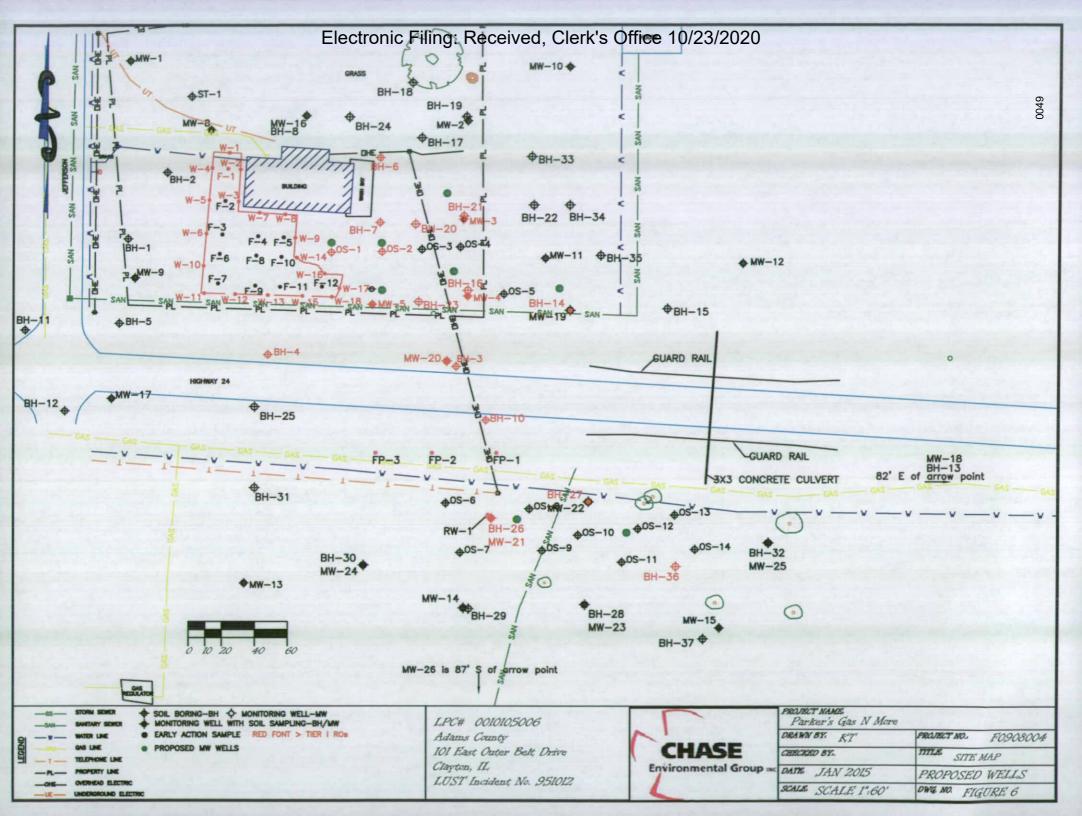


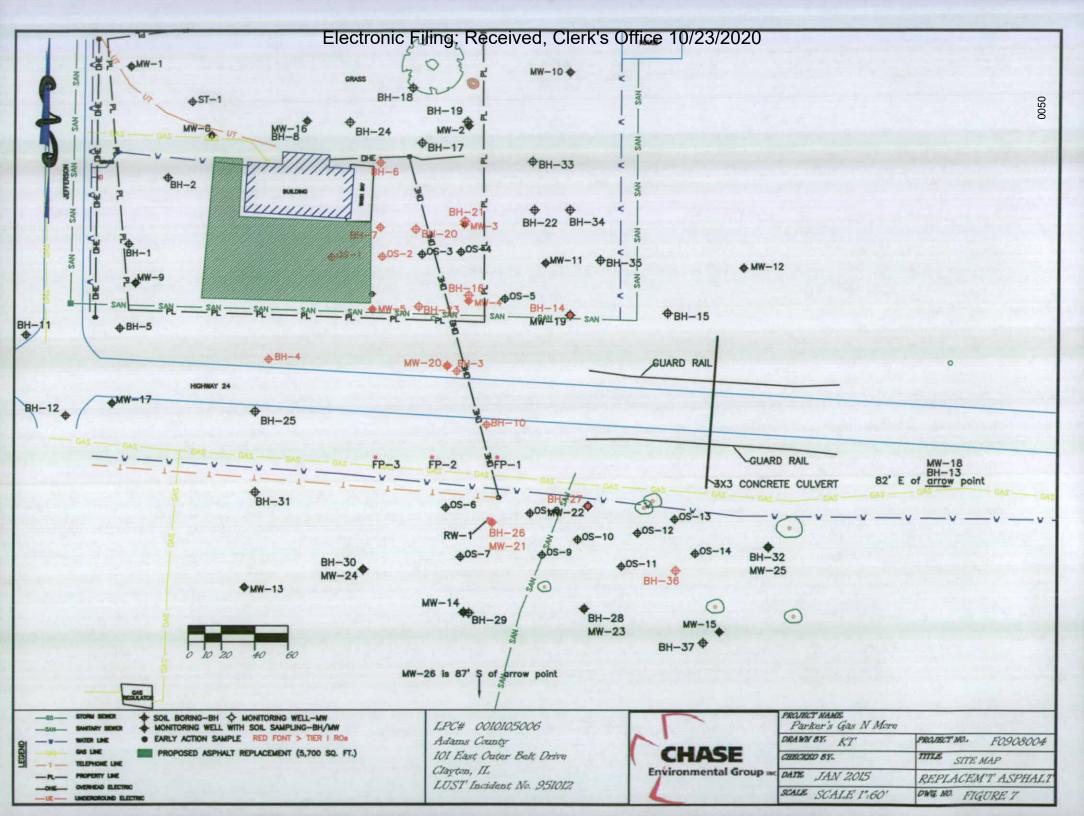


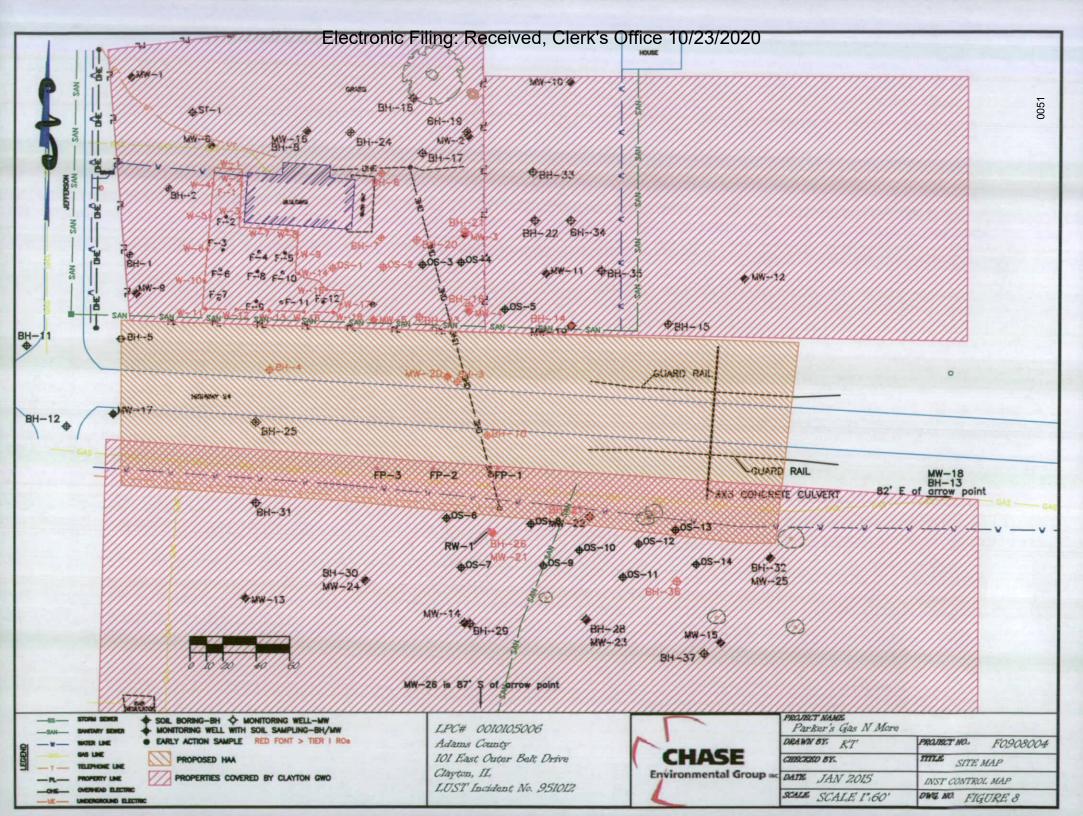


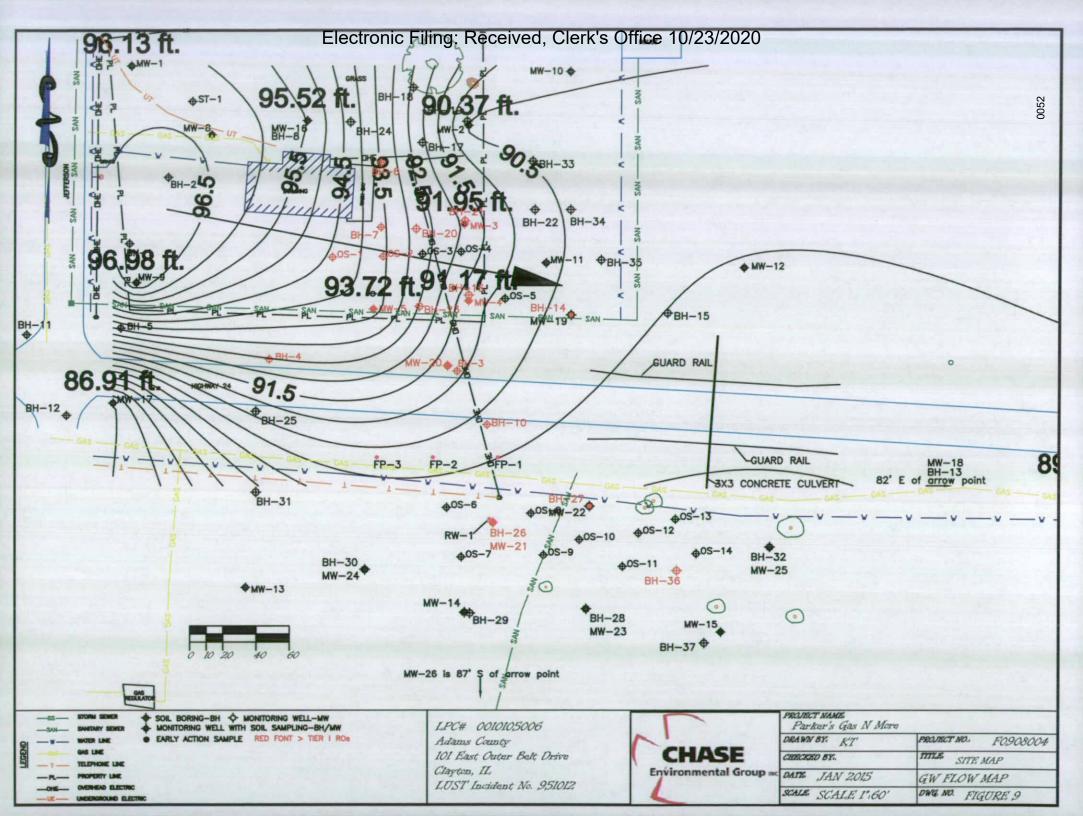


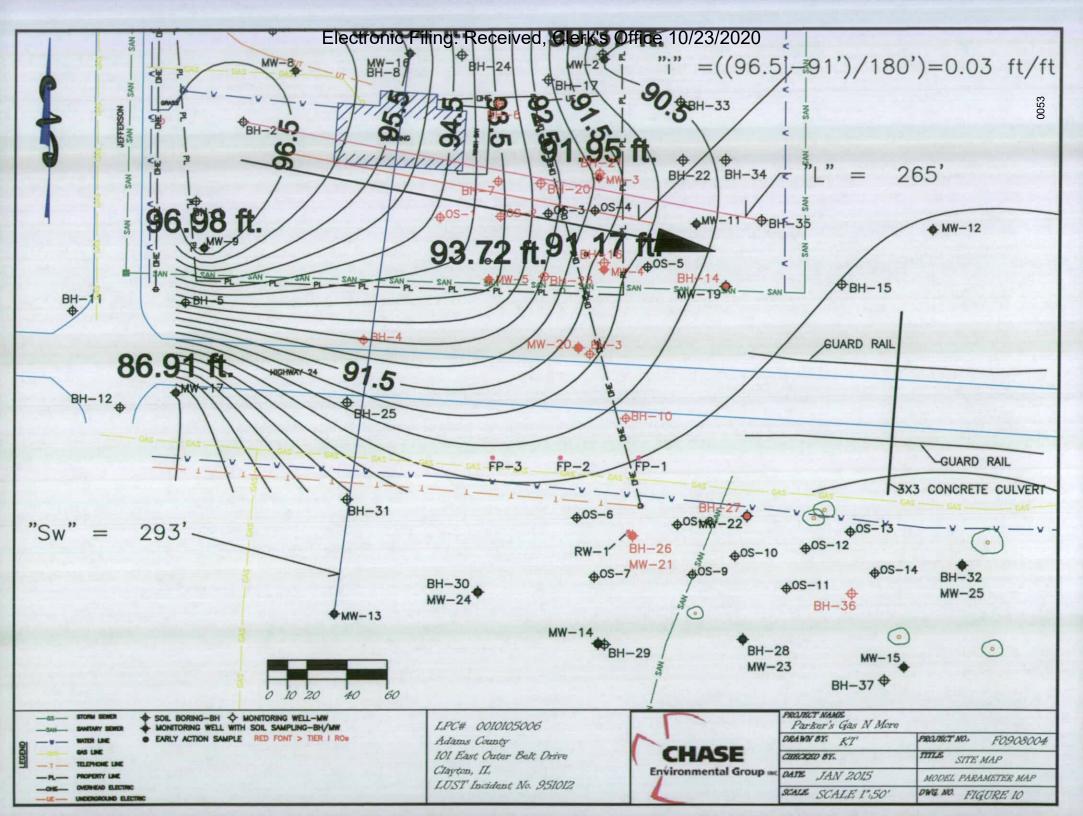












APPENDIX A TACO Equations

TACO TIER 2 SSL EQUATIONS

Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Imput Parameters for Use with Tier 2 Calculations

A.	Site Identificati	ion			
	IEMA Incident A	# (6- or 8-digit):			951012 IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (n	ot a P.O. Box):	101 Ea:	st O	uter Belt Drive
	City: Clayton		County:		Adams Zip Code: 62324
					Adalis 21) 0006. 02324
В.	Tier 2 Calculat	ion Information			
	Equations(s) U	sed: <u>S6 S</u>	7 S8 S9 S1	0	S17 S18 S19 S20 S21 S22 S24 S25 S29
					ed Calculations: oup, (618) 533-6740
	Land Use:	Industrial/C	ommercial -	Ber	nzene Soll Type: Silt Clay Loam
	Groundwater:	X Class I	□Cta	55 II	
	Mass Limit:	Yes	ΧNο		If Yes, then Specify Acreage: 0.5 1 2 5 10 30
	Land Use:	_Industrial/C	Commercial		Chemical: Benzene Incident #: 951012
	Input Value	Unit	Symbol		
		yr	AT	-	Average time for Noncarcinogens in Ingestion Equation
L		yr	AT	-	Average time for Noncarcinogens In Ingestion Equation (CW)
-		yr	AT	-	Average time for noncarcinogens in Inhabition equation
⊢			AT	-	Average time for noncarcinogens in Inhalation equation (CW)
├	70	yr tar	AT _c	-	Averaging time for Carcinogens
H	70	kg kg	BW BW	-	Body Weight (noncarcinogens) Body Weight (carcinogens)
\vdash	70	kg	BW	-	Body Weight (CW)
г	1389.38	mg/kg	C.	-	Soil Saturation Concentration
	0.1000	mg/L	C _w	-	Target Soil Leachate Concentration
-	11.590	m	- S	•	Mixing Zone Depth
Н	3.048	m	d.	Ť	Aquifer Thickness 10 ft
_		m		·	Depth of Source (Vertical thickness of contamination
			d,		
┡	1.99E-05	cm²/s	D _A	-	Apparent Diffusivity
!	8.80E-02	cm²/s	D _i	-	Diffusivity in Air
	1.02E-05	cm²/s	D,	-	Diffusivity in Water
_	20	unitless	DF	-	Dilution Factor
⊢		yr 	ED ED	-	Exposure duration for ingestion of carcinogens
-		yr yr	ED	-	Exposure duration for ingestion of carcinogens (CW) Exposure duration for ingestion of noncarcinogens
		yr yr	ED	-	Exposure duration for Ingestion of noncarcinogens (CW)
	25	yr.	ED	-	Exposure duration for Inhalation of carcinogens
	1	yr	ED		Exposure duration for inhalation of carcinogens (CW)
		yr	ED	-	Exposure duration for Inhalation of noncacrinogens
<u> </u>		Ут	ED	-	Exposure duration for Inhalation of noncacrinogens (CW)
-	25 1	yr 	ED ED	•	Exposure duration for the direct ingestion of groundwater
<u> </u>	<u>-</u>	yr 	ED _M	÷	Exposure duration for the direct ingestion of groundwater (CW) Exposure duration for migration to groundwater Mass-Limit Equation S28
┝	250	yr d/yr	EF.	•	Exposure frequency
	30	d/yr	EF	÷	7 (010)
	-	unitless	F(x)	Ī	Function dependent on U _m /U _t
\vdash	0.0109	g/g	foc	-	Fractional Organic Carbon
Т	0.00500	mg/L	GW _{ad}	-	Groundwater remediation objective
Т	0.23000	unitless	H'	•	Henry's Law Constant (25 C)
	0.13400	unitless	H		Henry's Law Constant (13 C) for Indoor Inh Exp.
	0.029794872	m/m	i	Ξ	Hydraulic Gradient
<u> </u>	0.3	m/yr	1	-	Infiltration Rate
_		m/yr	IML	<u> </u>	Infiltration rate for migration to groundwater Mass-Llmit Equation S28
L		(mg-yr)/(kg-d)	IF _{pot-ed}	_	Age adjusted Soil Ingestion Factor for Carcinogens
	50	mg/d	IR _{pot}	1	Soil Ingestion Rate
	480	mg/d	IR _{sof}	-	Soil Ingestion Rate (Construction Worker)
	1	L∕d	IR _w		Daily Water Ingestion Rate
	42.88896	m/yr	K	1	Hydraulic Conductivity (m/yr)1.36E_04cm/sec
L	0.545	cm ³ /g or L/kg	K₀	-	Soil-Water Partition Coefficient (Non-ionizing organics)
	S19&pH	cm ³ /g or L/kg	K₄	•	Soil-Water Partition Coefficient (Ionizing organics)
A	pp C, Table J	cm³/g or L/kg	k ₄	-	Soil-Water Partition Coefficient (Inorganics)
	50.00000	cm³/g or L/kg	K _{oc}	-	Organic Carbon Partition Coefficient
	13	m/yr	K,		Saturated Hydraulic Conductivity
	80.772	m		-	Source Length Parallel to Groundwater Flow 265
	-	m³/kg	PEF	-	Particulate Emission Factor
	-	m³/kg	PEF'		Particulate Emission Factor adjusted for Agitation (construction worker)
	85.81	(g/m²-s)/(kg/m³	O/C	-	Inverse of the mean concentration at the center of a square source (PEF equations)
	85.81	(g/m²-s)/(kg/m³	Q/C	-	Inverse of the mean concentration at the center of a square source (PEF CW equations)
	85.81	(g/m²-s)/(kg/m³	Q/C		Inverse of the mean concentration at the center of a square source (VF equations)
	85.81	(g/m²-s)/(kg/m³)	Q/C		Inverse of the mean concentration at the center of a square source (VF CW equations)
	3.00E-02	mg/m³	RfC		Inhalation Reference Concentration
	8.00E-02	mg/m³	RfC		Inhalation Reference Concentration (CW)

23/2020

		F	lectronic Filing: Received, Clerk's Office 10/2
Land Use:	Industrial/C	Commercial	Chemical: Benzene Incident #: 951012
4.00E-03	mg/(kg-d)	RfD _a	- Oral Reference Dose
1.00E-02	mg/(kg-d)	RfD.	- Oral Reference Dose (CW)
1.80E+03	mg/L	s	- Solubility in Water
5.50E-02	(mg/kg-d) ⁻¹	SF.	- Oral Slope Factor
7.90E+08	_ S	T	- Exposure Interval
3.60E+06		T	- Exposure Interval (Construction Worker)
	yr yr	TML	- Exposure Interval for Mass-Limit Volatilization Factor Equation \$26
	unitless	THQ	- Target Hazard Quotient
0.000001	unitless	TR	- Target Cancer Risk
0.000001	unitless	TR	Target Cancer Risk (Construction Worker)
<u> </u>	m/s	Um	- Mean Annual Wind speed
7.80E-06	(ug/m³)-1	URF	Inhalation Unit Risk Factor 0
	m/s	Uı	- Equivalent Threshold Value of Wind speed at 7m
	unitless	V	- Fraction of Vegative Cover
30120.35	m³/kg	VF	- Volatilization Factor
203.33	m³/kg	VF	Volatifization Factor adjusted for Agitation
	m³/kg	VF _{M-L}	- Mass-Limit Volatilization Factor
<u> </u>	m³/kg	VFML	- Mass-Limit Volatilization Factor adjusted for Agitation
0.420	ليبيا/ليبيا	η	- Total Soil Porosity
0.077	L _{ar} /L _{eof}	Θa	- Air Filled Soil Porosity
0.343	ليبييا/ليور	Θw	- Water Filled Soil Porosity
1.589	kg/L or g/cm ³	Pb_	- Dry Soil Bulk Density
2.74	g/cm ³	ps	- Soil Particle Density
111	unitless	ρw	- Water Density
0.054	unitless	1/(2b+3)	Exponential in Equation S20
Equation	Result	Unit(s)	
S1 =	**	mg/kg	
S1 (CW) =	_	mq/kq	
S2 =		mg/kg	
S3 =		mg/kg	
S3 (CW) =	-	mg/kg	
<u>\$4</u> =		mg/kg	
<u>S5</u> =	15.786	mg/kg	
S6 = S7 =	22,201	mg/kg mg/kg	
S17 =	0.077	mg/kg mg/kg	
S28 =		mg/kg	
\$29 =	1389.38	mg/kg	
\$30 =	-	mg/m³	
S30 (CW) =	-	mg/m³	

S30 (CW ndustrial S-1 =	//Commercial Ingestion THQ - BW - AT - 10° - (1/RfD ₆) - EF - E	mg/m³ Tier II Object	ctive for	Non-Ca	arcinoge 	nic Con	taminar 	nts .				,			mg/l
	10 ⁴ · (1/RfD ₆) · EF · E	D - IR _{ed}		•				-		·			.,-		
	tion Worker Ingestion														
S-1 =	THQ x BW x AT x	D x IR _{sor}	-	٠	_	•	-			•		•	=	-	mg/l
	ial Ingestion Tier II Ben											•		_	
			_		_	٠.							_		mg/
-2 =	Sf _o · 10 ⁻⁶ · EF · IF _{ec}	=	-	•	-	٠ .		•	-				_		9
			-				- ' '	•	-						
dustrial	/Commercial Ingestion	Tier (I Benze	ne Card	inogeni	lc Objec	tive					<u>.</u>				
Justrial		Tier (I Benze	ne Card	inogeni	lc Objec	tive			- - -	•			=		
dustrial	TR · BW · AT _c · Sf _o · 10 ⁻⁶ · EF · ED	Tier II Benze	ene Card	inogenic	ic Objec	tive	- -					-	=		
dustrial	TR · BW · AT _c · Sf _o · 10 ⁻⁶ · EF · ED	Tier II Benze	ene Card	inogenic	ic Objec	tive	- -						=	••	mg
dustrial	TR · BW · AT _c · Sf _o · 10 ⁻⁶ · EF · ED	Tier II Benze	ene Card	inogenic	ic Objec	tive	- -				- - - -				mg.
dustrial -3 = onstruct -3 =	TR · BW · AT _c · Sf _o · 10 ⁻⁶ · EF · ED	Tier (I Benze 365 =	ne Carcine Carcine	nogenio	: Objecti	tive .	ective								mg

365

250

mg/kg

mg/kg

= 15.79

25

· 3.32E-05

S-5 = THQ - AT - 365 EF - ED - (1/RfC - 1/VF') = -

Construction Worker Inhalation Non-Carcinogenic Tier II Remediation Objective

Land Use:

Industrial/Commercial

Construction Worker Inhalation Tier II Benzene Carcinogenic Objective

S-7 = $\frac{\text{TR} \cdot \text{ATc} \cdot 365}{\text{URF} \cdot 1000 \cdot \text{EF} \cdot \text{ED} \cdot 1/\text{VF}} = \frac{0.00001}{7.80E-96} \cdot \frac{70}{1000}$ = 22.20 mg/kg

Industrial/Commercial VF
$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{4/2} \cdot 10^4}{(2 \cdot p_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 1.99E \cdot 0.05 \cdot 7.90E + 0.8)^{4/2}}{2 \cdot 1.589 \cdot 1.99E \cdot 0.05} = 3.01E + 0.4$$

$$m^2/kg$$

S-8 =
$$\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 1.99E \cdot 05 \cdot 3.60E + 06)^{1/2} \cdot 1E \cdot 04}{2 \cdot 1.589 \cdot 1.99E \cdot 05} = 2.03E + 03$$

Equation for Derivation of Volatilization Factor - Construction Worker VF

$$S-9 = \frac{VF}{10} = \frac{2033.28}{10} = 203.33 \text{ m}^3 \text{ kg}$$

Equation for Derivation of Apparent Diffusivity
$$S-10 = \frac{(\theta_a^{3.33} \cdot D_i \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_o \cdot H')}$$

= (0.000199 8.80E-02 2.30E-01)+(2.83E-02 1.02E-05)
0.176461319

Fugitive Dust Equations
Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{\frac{\text{THQ · AT · 365}}{\text{EF · ED · } \frac{1}{\text{RfC}}} = \frac{\frac{1}{\text{PEF}}}{\frac{1}{\text{PEF}}} = \frac{\frac{1}{\text{PEF}}}{\frac{1}} = \frac{\frac{1}{\text{PEF}}}{\frac{1}} = \frac{\frac{1}{\text{PEF}}}{\frac{1}} = \frac{\frac{1}{\text{PEF}}}{\frac{1}} =$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

Industrial/Commercial Equation for Derivation of Particulate Emission Factor
$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1 - V) \cdot (U_m/U_0)^3 \cdot F(x)} = \frac{-}{-} \cdot \frac{-}{-} \cdot (\frac{-}{-} - \frac{-}{-}) \cdot (\frac{-}{-} - \frac{-}{-})^3 \cdot -$$

Construction Worker Equation for Derivation of Particulate Emission Factor

S-15 =
$$\frac{Q}{C}$$
 $\cdot \frac{3600}{0.036 \cdot (1 - V) \cdot (U_m/U_j)^3 \cdot F(x)}$ = $\frac{1}{2}$ $\cdot (\frac{1}{2} - \frac{1}{2})^3 \cdot \frac{1}{2}$ $\cdot (\frac{1}{2} - \frac{1}{2})^3 \cdot \frac{1}{2}$ $\cdot (\frac{1}{2} - \frac{1}{2})^3 \cdot \frac{1}{2}$

Equation for Derivation of Particulate Emission Factor, PEF' CW

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_{-} \cdot \left[K_{i} + \frac{(\theta_{-} + \theta_{a} + H')}{\rho_{b}} \right] = 0.1 \cdot \left[0.545 + \frac{0.342718 + 0.077 \cdot 2.30E-01}{1.589} \right] = 0.077 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

Land Use: Industrial/Commercial

Soil-Water Partition Coefficient S-19 = $K_{oo} \cdot f_{oo}$ = 50.00 · 0.0109 0.545

Water-Filled Porosity S-20 = $\eta \cdot \frac{I^{1(2b+3)}}{K_b}$ = 0.42007 $\cdot \frac{0.3}{13}$ = 0.3427

Air-Filled Porosity S-21 = $\eta - = 0.42007 - 0.34272$ = 0.077355

Dilution Factor S-22 = 1 + $\frac{K \cdot i \cdot d}{1 \cdot L}$ = $\frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772}$ + 1 = 1.61121

Tier II Class I Groundwater Ingestion mg/L

Total Soil Porosity S-24 = $1 \cdot \frac{\rho_b}{}$ = 0.420073

Estimation of Mixing Zone Depth **S-25** = $(0.0112 \cdot L^2)^{0.5} + d_0 \cdot (1 - \exp{\frac{(-L \cdot I)}{(K \cdot I \cdot d_0)}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$ $\cdot (1 - \exp \left(\frac{-80.772}{42.889} \cdot \frac{0.3}{0.02979} \cdot \frac{3.048}{3.048} \right) = 11.590$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker $S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_b \cdot 10^9} = \frac{-1}{2} \cdot \frac{-1}{2} \cdot \frac{-1}{2} \cdot \frac{-1}{2} \cdot \frac{-1}{2}$ m³/kg

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker m³/kg

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route S-28 = $\frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{p_b \cdot d_s}$ = ... mg/kg

 $\mathbf{S-29} = \frac{\mathbf{S}}{\rho_b} \cdot [(\mathbf{K_d} \cdot \rho_b) + \Theta_a + (\mathbf{H}' \cdot \Theta_a)] = \frac{1800}{1.589} \cdot [(0.545 \cdot 0.545) + 0.343 + (0.230 \cdot 0.077)]$ 1,389 mg/kg

Electronic Filing: Received, Clerk's Office 10/23/2020 Chemical: Benzene Incident #: 951012

 Land Use:
 Industrial/Commercial
 Chemical:
 Benzene
 Incident #:
 951012

 Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

 S-30 = RO_{soil} · H' · P_b · 1000
 = ... · ... · ... · ... · ... · ...
 = ... · ... · ... · ... · ... · ... · ...
 = ... · ...

Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A,	Site Identificat	ion			
	IEMA Incident	# (6- or 8-digit):			951012 IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (n	ot a P.O. Box):	101 Ea:	st O	uter Belt Drive
	City: Claytor		County		Adams Zip Code: 62324
R		ion Information	•		
٠.				_	047 048 049 009 004 009 004 005
	Equations(s) U		S8 S9 S1		S17 S18 S19 S20 S21 S22 S24 S25 S29
					ed Calculations: oup, (618) 533-6740
	Land Use:	Industriat/C	ommercial -	Tol	uene Soil Type: Silt Clay Loam
	Groundwater:	X Class I	a₃	i ee	
	Mass Limit:	Yes	ΧNο		If Yes, then Specify Acreage: 0.5 1 2 5 10 30
	Land Use:	Industrial/0	Commercial		Chemical: Toluene Incident #: 951012
	Input Value	Unit	Symbol		
		ут	AT	-	Average time for Noncarcinogens in Ingestion Equation
	-	yr	AT	Ξ	Average time for Noncarcinogens in Ingestion Equation (CW)
ᆫ	25	yr	AT	-	Average time for noncarcinogens in Inhalation equation
<u> </u>	0.115	yr	AT	-	Average time for noncarcinogens in Inhalation equation (CW)
L_		уг	AT _o	<u>-</u>	Averaging time for Carcinogens
	70	kg	BW	Ŀ	Body Weight (noncarcinogens)
_		kg	BW	<u> </u>	Body Weight (carcinogens)
_	<u>70</u>	kg	BW	<u> </u>	Body Weight (CW)
	1034.07	mg/kg	C _{pet} _	Ŀ	Soil Saturation Concentration
	20.0000	mg/L	C,,	-	Target Soil Leachate Concentration
	11.590	m	d	-	Mixing Zone Depth
	3.048	m	d.	Γ.	Aquifer Thickness 10 ft
		m	d.	_	Depth of Source (Vertical thickness of contamination
┝	9.02E-06	cm²/s	_	_	
├-			D _A	Ŀ	Apparent Diffusivity
╙	8.70E-02	cm²/s	D,	<u> </u>	Diffusivity in Air
	8.60E-06	cm²/s	D _w	-	Diffusivity in Water
$oxed{oxed}$	20	unitless	DF		Dilution Factor
_	_	ΥŢ	ED		Exposure duration for ingestion of carcinogens
!		yr	ED	Ŀ	Exposure duration for Ingestion of carcinogens (CW)
╙	**	ут	ED	Ŀ	Exposure duration for ingestion of noncarcinogens
-		yr	ED	÷	Exposure duration for ingestion of noncarcinogens (CW)
⊢		yr 	ED	-	Exposure duration for inhalation of carcinogens
-	25	yr yr	ED ED	-	Exposure duration for inhalation of carcinogens (CW) Exposure duration for inhalation of noncacrinogens
\vdash	1	yr	ED	÷	Exposure duration for inhalation of noncacrinogens (CW)
\vdash	25	yr .	ED	÷	Exposure duration for the direct ingestion of groundwater
	1	yr	ED		Exposure duration for the direct ingestion of groundwater (CW)
		yr	EDwa	-	Exposure duration for migration to groundwater Mass-Limit Equation \$28
_	250	d/yr	EF	Ξ	Exposure frequency
Г	30	d/yr	EF	-	Exposure frequency (CW)
	_	unitless	F(x)	-	Function dependent on U _m /U ₁
	0.0109	9/9	foc	-	Fractional Organic Carbon
	1.00000	mg/L	GW _{chi}	-	Groundwater remediation objective
l –	0.27100	unitless	H'	Ξ.	Henry's Law Constant (25 C)
Ľ	0.14900	unitiess	Н	-	Henry's Law Constant (13 C) for Indoor Inh Exp.
	0.029794872	m/m	j	_	Hydraulic Gradient
	0.3	m/yr		Ξ	Infiltration Rate
	_	m/yr	ايبر		Infiltration rate for migration to groundwater Mass-Limit Equation S28
L	-	(mg-yr)/(kg-d)	IF _{solvet}		Age adjusted Soil Ingestion Factor for Carcinogens
	50	mg/d	IR _{ed}		Soil Ingestion Rate
	480	mg/d	IR _{eol}	-	Soil Ingestion Rate (Construction Worker)
	1	L∕d	IR _W	_	Daily Water Ingestion Rate
-	42.88896	m/yr	K	-	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
_	1.7222	cm³/g or L/kg	K₃	-	Soil-Water Partition Coefficient (Non-ionizing organics)
				÷	, , , ,
_	S19&pH	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Ionizing organics)
Α	pp C, Table J	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Inorganics)
	158.00000	cm³/g or L/kg	K _{ee} _	•	Organic Carbon Partition Coefficient
	13	m/yr	K		Saturated Hydraulic Conductivity
	80.772	m	L	Ξ	Source Length Parallel to Groundwater Flow 265
		m³/kg	PEF	Ŀ	Particulate Emission Factor
	_	m³/kg	PEF'		Particulate Emission Factor adjusted for Agitation (construction worker)
	85.81	(g/m²-s)/(kg/m³)	Q/C		toverse of the mean concentration at the center of a square source (PEF equations)
	85.81	(g/m²-s)/(kg/m³)	Q/C		Inverse of the mean concentration at the center of a square source (PEF CW equations)
	85.81	(g/m²-s)/(kg/m³)	Q/C	-	Inverse of the mean concentration at the center of a square source (VF equations)
	85.81	(g/m²-s)/(kg/m³1	Q/C		Inverse of the mean concentration at the center of a square source (VF CW equations)
	5.00E+00	mg/m³	RfC		Inhalation Reference Concentration
	5.00E+00	mg/m³	RfC	_	Inhalation Reference Concentration (CW)

Land Use:	Industrial/0		lectronic Filing: Received, Clerk's Office Chemical: Toluene Incident #: 951012	e 10/	23/2	2020
0.005.03	molths at	D/D	- Oral Reference Dose			
8.00E-02 8.00E-01	mg/(kg-d) mg/(kg-d)	RfD, RfD,	Oral Reference Dose Oral Reference Dose (CW)			
5.30E+02	mg/L	S S	- Solubility in Water			
	(mg/kg-d) ⁻¹	SF.	- Oral Slope Factor			
7.90E+08	3	T	- Exposure Interval			
3.60E+06	3	T	Exposure Interval (Construction Worker)			
 -	уг	TML	Exposure Interval for Mass-Limit Volatilization Factor Equation S26			
	unitless unitless	THQ TR	- Target Hazard Quotient - Target Cancer Risk			
	unitiess	TR	Target Cancer Risk Target Cancer Risk (Construction Worker)			
	m/s	Um	- Mean Annual Wind speed			
	(ug/m³)-1	URF	- Inhalation Unit Risk Factor			
	m/s	U,	- Equivalent Threshold Value of Wind speed at 7m			
	unitiess	V	- Fraction of Vegative Cover			
44784.68	m³/kg	VF	- Volatilization Factor			
302.32	m³/kg	VF	Volatilization Factor adjusted for Agitation			
-	m³/kg	VFML	- Mass-Limit Volatilization Factor			
 -	m³/kg	VFML	Mass-Limit Volatilization Factor adjusted for Agitation			
0.420	L _{pore} /L _{eal}	η	- Total Soil Porosity			
0.077	الصاليها	Θa	_ Air Filled Soil Porosity			
0.343	ليبيا/ليبيا	€w	Water Filled Soil Porosity			
1.589	kg/L or g/cm ³	Pъ	- Dry Soil Bulk Density			
2.74	g/cm³	ρs	- Soil Particle Density			
1	unitless	pw	Water Density			
0.054	unitless	1/(2b+3)	Exponential in Equation S20			
quation	Result	Unit(s)				
S1 =	- Kesuit	mg/kg				
31 (CW) =		mg/kg				
\$2_ =	_	mg/kg				
S3 =	_	mg/kg				
3 (CW) =		mg/kg				
S4 =	1034.070 1034.070	mg/kg				
S5 =	1034.070	mg/kg mg/kg				
S7 =		mg/kg				
S17 =	39.021	mg/kg				
S28 =		mg/kg				
S29 =	1034.07	mg/kg				
S30 =	***	mg/m³				
30 (CW) =	-	mg/m³				
-1 = TI	HQ · BW · AT · 3 (1/R/D _e) · EF · ED	965 0 · IR _{wa} =	ne Objective for Non-Carcinogenic Contaminants	=	-	mg/
-1 = TH	ker ingestion T IQ x BW x AT x (1/RfD _o) x EF x EI	365 =	e Remediation Objectives for Non-Carcinogenic Contaminants	=	-	mg/
esidential Ingesi $-2 = \frac{T}{Sf_0}$			bjective	=	••	mg/
			inogenic Objective	=	-	mg/
			nogenic Objective	=		mg/
dustrial/Comme	rcial inhalation HQ · AT · 365 ED · (1/RfC · 1/V	Non-Carcli	ogenic Tier II Toluene Remediation Objective		26928.18	

Industria	Industrial/Commercial Inhalation Tier II Carcinogenic Objective														
S-6 =	TR · ATc · 365	-		-		_					_	=		ma/ka	
3-0 -	URF · 1000 · EF · ED · 1/VF	-	•	-			•	_	•	_	=	_		iliging	
ĺ															

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 1034.07 mg/kg.

Land Use:

Industrial/Commercial

Construction Worker Inhalation Tier II Carcinogenic Objective

S-7 = TR · ATC · 365 URF · 1000 · EF · ED · 1/VF

mg/kg

Industrial/Commercial VF

| Industrial/Commercial VF | S-8 =
$$\frac{Q}{C} \cdot \frac{(3.14 + D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot p_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 9.02E-06 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589} \cdot 9.02E-06$$

m³/kg

S-8 =
$$\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 9.02E-06 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 9.02E-06}$$

(1.589 1.7222)+ 0.342718 +(0.077 2.71E-01)

Equation for Derivation of Volatilization Factor - Construction Worker VF'

S-9 =

VF

10

=

3023.20

10

Equation for Derivation of Apparent Diffusivity
$$S-10 = \frac{(\theta_a^{3.33} \cdot D_i \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_a \cdot H')}$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

mg/kg

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

mg/kg

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

mg/kg

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

mg/kg

S-15 =
$$\frac{Q}{C}$$
 $\frac{3600}{0.036 \cdot (1-V) \cdot (U-U)^3 \cdot F(x)}$ =

Construction Worker Equation for Derivation of Particulate Emission Factor
$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_{a}/U)^{3} \cdot F(x)} = - \frac{m^{3}/kg}{m^{3}/kg}$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

Soil Component of the Migration to Groundwater Cleanup Objective Class I

S-17 =
$$C_{w} \cdot \left[K_{d} + \frac{(\theta_{w} + \theta_{s} \cdot H')}{\rho_{b}} \right] = 20 \cdot \left[1.7222 + \frac{0.342718 + 0.077 \cdot 2.71E-01}{1.589} \right]$$

Target Soil Leachate Concentration Class I

Land Lise: Industrial/Commercial

Soil-Water Partition Coefficient S-19 = $K_{\infty} \cdot f_{\infty}$ = 158.00 · 0.0109 = 1,7222

Water-Filled Porosity S-20 = $\eta \cdot \frac{I^{1(2b+3)}}{K_s}$ = 0.42007 $\cdot \frac{0.3}{13}$ = 0.3427

Air-Filled Porosity S-21 = = 0.42007 - 0.34272 = 0.077355

Dilution Factor S-22 = 1 + $\frac{K \cdot i \cdot d}{I \cdot L}$ = $\frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772}$ + 1 **=** 1.61121

Tier II Class I Groundwater Ingestion mg/L

Total Soil Porosity S-24 = 1 - Pb = 0.420073

Estimation of Mixing Zone Depth **S-25** = $(0.0112 \cdot L^2)^{0.5} + d_s \cdot (1 \cdot \exp{\frac{(-L \cdot I)}{(K \cdot I \cdot d_s)}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route S-26 = $\frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_s \cdot 10^6} = - \frac{-- \cdot (--- \cdot ---)}{-- \cdot (--- \cdot ---)}$ m³/kg

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker m³/kg

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker m³/kg

Mass-Limit Remediation Objective for the Soil Component of the Groundwater ingestion Exposure Route $S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_c} = \frac{...}{..}$ mg/kg

Soil Saturation Limit $S-29 = \frac{S}{P_b} \cdot [(K_a \cdot P_b) + \Theta_a + (H^* \cdot \theta_a)] = \frac{530}{1.589} \cdot [(1.7222 \cdot 1.589) + 0.343 + (0.271 \cdot 0.077)]$ 1,034 mg/kg

Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A.	Site Identificat	ion												
	IEMA Incident	# (6- or 8-digit):			951012 IEPA LPC # (10 digit): 10105006									
	Site Name: Parker's Gas & More													
	Site Address (n	ot a P.O. Box):	101 Fa	st O	tuter Belt Drive									
	City: Claytor		County		Adams Zip Code: 62324									
_	-		•	•	70ans 25 0006. 02324									
В.	Tier 2 Calculat	ion Information												
	Equations(s) U	sed: <u>S4 S5</u>	S8 S9 S1	0	S17 S18 S19 S20 S21 S22 S24 S25 S29									
					ned Calculations: oup, (618) 533-6740									
	Land Use:	Industrial/C	ommercial -	Eth	iylbenzene Soll Type: Silt Clay Loam									
	Groundwater:	X Class I	Cla	55	I									
	Mass Limit: Yes X No If Yes, then Specify Acreage: 0.5 1 2 5 10 30													
	Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012													
	Input Value Unit Symbol													
	-	yr	AT	Ē	Average time for Noncarcinogens in Ingestion Equation									
_		<u>yr</u>	AT AT	Ŀ	Average time for Noncarcinogens in Ingestion Equation (CW)									
	0.115	yr yr	AT	-	Average time for noncarcinogens in Inhalation equation Average time for noncarcinogens in Inhalation equation (CW)									
- yr AT _c - Average time for Carcinogens														
	70 kg BW - Body Weight (noncarcinogens)													
		kg	BW	٠	Body Weight (carcinogens)									
_	70 632,31	kg ma@a	BW	•	Body Weight (CW) Soil Saturation Concentration									
_	14.0000	mg/kg mg/L	C _{pet}	-	Target Soil Leachate Concentration									
	11.590	m m	3	-	Mixing Zone Depth									
	3.048	m	d.	•	Aquifer Thickness 10 ft									
		m	d,	-	Depth of Source (Vertical thickness of contamination									
	4.85E-06	cm²/s	D _A	•	Apparent Diffusivity									
<u>. </u>	7.508-02	cm²/s	Di	·	Diffusivity in Air									
	7.80E-06	cm²/s	D _w	_	Diffusivity in Water									
	20	unitless	DF	_	Dilution Factor									
_		yr yr	yr ED - Exposure duration for ingestion of carcinogens yr ED - Exposure duration for ingestion of carcinogens (CW)											
	_	yr	ED	Ŀ	Exposure duration for ingestion of noncercinogens									
		yr	ED	-	Exposure duration for ingestion of noncarcinogens (CW)									
_		yr yr	ED ED	۱÷	Exposure duration for inhalation of carcinogens Exposure duration for inhalation of carcinogens (CW)									
	25	yr yr	ED	Ť	Exposure duration for inhalation of noncacrinogens									
	1	yr	ÉD	Ξ	Exposure duration for inhalation of noncacrinogens (CW)									
	25	yr	ED	•	Exposure duration for the direct ingestion of groundwater									
	1	yr 	ED _{M4}	-	Exposure duration for the direct ingestion of groundwater (CW) Exposure duration for migration to groundwater Mass-Limit Equation \$28									
	250	yr d/yr	EF	÷	Exposure frequency									
	30	d/yr	EF	Ŀ	Exposure frequency (CW)									
	_	unitless	F(x)	-	Function dependent on U,,/U,									
	0.0109	9/9	foc	-	Fractional Organic Carbon									
	0.70000	mg/L	GW _{œl}	÷	Groundwater remediation objective									
_	0.32400 0.16400	unitless unitless	Н	-	Henry's Law Constant (25 C) Henry's Law Constant (13 C) for Indoor Inh Exp.									
(0.029794872	m/m	i	Ŀ	Hydraulic Gradient									
_	0.3	m/yr	!	-	Infiltration Rate									
_	_	m/yr	<u>ц.</u>	÷	Infiltration rate for migration to groundwater Mass-Limit Equation \$28									
	50	(mg-yr)/(kg-d)	IF _{sol-eq}	_	Age adjusted Soil Ingestion Factor for Carcinogens Soil Ingestion Rate									
_	480	mg/d mg/d	IR _{ed}	÷	Soil Ingestion Rate (Construction Worker)									
_	1	1./d	IR _w	÷	Daily Water Ingestion Rate									
	42.88896	m/yr	K	-	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec									
	3.488	cm³/g or L/kg	K₃	-	Soil-Water Partition Coefficient (Non-ionizing organics)									
	S19&pH	cm³/g or L/kg	K₄	•	Soil-Water Partition Coefficient (Ionizing organics)									
A	pp C, Table J	cm³/g or L/kg	K₄	-	Soil-Water Partition Coefficient (Inorganics)									
	320.00000	cm³/g or L/kg	K _{oc}		Organic Carbon Partition Coefficient									
	13	m/yr	K,	-	Saturated Hydraulic Conductivity									
	80.772		L	-	Source Length Parallel to Groundwater Flow 265									
	<u></u>	m³/kg m³/kg	PEF PEF	-	Particulate Emission Factor Particulate Emission Factor adjusted for Agitation (construction worker)									
	85.81	m /kg (g/m²-s)/(kg/m³)	Q/C		Inverse of the mean concentration at the center of a square source (PEF equations)									
	85.81	(g/m²-s)/(kg/m³	Q/C		inverse of the mean concentration at the center of a square source (PEF CW equations)									
	85.81	(g/m²-s)/(kg/m³)	Q/C		Inverse of the mean concentration at the center of a square source (VF equations)									
	85.81	(g/m²-s)/(kg/m³) mc/m³	Q/C BfC	-	Inverse of the mean concentration at the center of a square source (VF CW equations)									
	: JHIMA/NI	mo/m*	Later 1		Inhelation Reference Concentration									

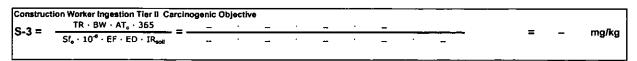
mg/m³ RfC - Inhalation Reference Concentration (CW)

Land Use:	Industrial/0	Commercial		Chemical:	Ethylbenzene	Incident #:	9						
1.00E-01	mg/(kg-d)	RfD.	-	Oral Reference Do	ose								
5.00E-02	mg/(kg-d)	RtD.	•	Oral Reference Do	ose (CW)								
1.70E+02	mg/L	s	•	Solubility in Water	1								
	(mg/kg-d) ⁻¹	SF.	•	Oral Slope Factor									
7.90E+08_	8	Τ	•	Exposure Interval									
3.60E+06	5	T	ŀ	Exposure Interval (Construction Worker)									
	yr	T _M L	•	Exposure Interval	for Mass-Limit Volatilizati	on Factor Equation S26							
1	unitless	THQ	Ш	Target Hazard Qu	otient								
	unitless	TR	4	Target Cancer Ris	ik								
	unitless	TŘ	Ŀ	Target Cancer Ris	k (Construction Worker)								
	m/s	U _m	-	Mean Annual Win	d speed								
2.50E-06	(ug/m³) ⁻¹	URF	٠	Inhalation Unit Ris	sk Factor	0							
	m/s	Ut	-	Equivalent Thresh	old Value of Wind speed	at 7m							
	unitless	v	Ξ	Fraction of Vegati	ve Cover								
61088.79	m³/kg	VF	-	Volatilization Fact	or								
412.38	m³/kg	VF		Volatilization Fact	or adjusted for Agitation								
-	m³/kg	VF _{ML}	-	Mass-Limit Volatili	ization Factor								
	m³/kg	VF _M L	-	Mass-Limit Volatili	ization Factor adjusted for	r Agitation							
0.420	L _{port} /L _{pot}	η	Ŀ	Total Soil Porosity	1								
0.077	إبياليبا	θa	-	Air Filled Soil Pord	osity								
0.343	ليبيي/ليور	- Ow	-	Water Filled Soil I	Porosity								
1.589	kg/L or g/cm ³	Ρь	-	Dry Soil Bulk Den:	sity								
2.74	g/cm³	ρs		Soil Particle Dens	ity								
1	unitless	ρw	-	Water Density									
0.054	unitless	1/(2b+3)	Ŀ	Exponential in Equ	uation S20								

Equation		Result	Unit(s)
<u>\$1</u>	=	-	mg/kg
S1 (CW)	=	_	mg/kg
S2	=		mg/kg
S3	=	-	mg/kg
S3 (CW)	=	_	mg/kg
S4	=	632.310	mg/kg
S 5	=	632.310	mg/kg
S6	=	-	mg/kg
S7	=		mg/kg
S17	=	52.072	mg/kg
S28	_=	-	mg/kg
S29	2	632.31	mg/kg
S30	=		mg/m³
S30 (CW)	=		mg/m³

Industria	I/Commercial Ingestion Tier II Ethy	lbenzene (Object	ve for N	on-Care	cinogen	ic Cont	aminant	3						
S-1 =	THQ - BW - AT - 365					_		-			_		_		
3-1 -	10° · (1/RfD _o) · EF · ED · IR _{soll}									_	_	• =	-	_	mg/kg

Construction Worker Ingestion Tier II Ethylbenzene Remediation Objectives for Non-Carcinogenic Contaminants														
S-1 =	THQ x BW x AT x 365	_			٠							-		ma/ka
3-, -	10 ⁻⁶ x (1/RfD _o) x EF x ED x IR _{soll}	-	•	-	•	-	•		•		_	-	mg/kg	



!ndustrlal/	Commercial Inhalation Tier ti Carc	inogenic	Object	ive				 				
S-6 =	TR · ATc · 365					_				_	_	ma/ka
J-0 =	URF - 1000 - EF - ED - 1/VF	-	•	-	•	-	•	 •	-		-	 mg/kg

Chemical: Ethylbenzene Incident #: Industrial/Commercial Land Use:

Construction Worker Inhalation Tier II Carcinogenic Objective

Industrial/Commercial VF
$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 4.85E \cdot 06 \cdot 7.90E + 08)^{1/2} \cdot 1E \cdot 04}{2 \cdot 1.589 \cdot 4.85E \cdot 06} = 8.11E + 04$$

Construction Worker VF
$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot p_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 4.85E \cdot 06 \cdot 3.60E + 06)^{1/2} \cdot 1E \cdot 04}{2 \cdot 1.589 \cdot 4.85E \cdot 06} = 4.12E + 03$$

$$m^3/kg$$

Equation for Derivation of Volatilization Factor - Construction Worker VF

$$S-9 = \frac{VF}{10} = \frac{4123.82}{10} = 412.38 \text{ m}^3/kg$$

Equation for Derivation of Apparent Diffusivity

Equation for Derivation of Apparent Diffusivity
$$S-10 = \frac{(\theta_a^{333} \cdot D_i \cdot H') + (\theta_w^{333} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_a \cdot H')}$$

$$= \frac{(0.000199 \cdot 7.50E-02 \cdot 3.24E-01) + (2.83E-02 \cdot 7.80E-06)}{0.176461319}$$

= 4.85E-06

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

Equation for Derivation of Particulate Emission Factor, PEF' CW

Soil Component of the Migration to Groundwater Cleanup Objective Class I
$$S-17 = C_w \cdot \{ K_0 + \frac{(\theta_w + \theta_o \cdot H')}{\rho_b} \} = 14 \quad [3.488 + \frac{0.342718 + 0.077}{1.589} = 52.072 \quad mg/kg$$

Target Soil Leachate Concentration Class I

Land Use: Industrial/Commercial

Soil-Water Partition Coefficient

S-19 = $K_{\infty} \cdot f_{\infty}$ = 320.00 · 0.0109 3.488

Water-Filled Porosity

S-20 =
$$\eta \cdot \frac{1^{1(2b+3)}}{K_s}$$
 = 0.42007 $\cdot \frac{0.3}{13}$ = 0.3427

Air-Filled Porosity

Dilution Factor

Tier II Class I Groundwater Ingestion

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_a} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^{2})^{0.5} + d_{a} \cdot (1 - \exp{\frac{(-L \cdot I)}{(K \cdot i \cdot d_{a})}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$$

$$\cdot (1 - \exp{\left(\frac{-80.772 \cdot 0.3}{(42.889 \cdot 0.02979 \cdot 3.048)}\right)}) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_b \cdot 10^6} = \frac{- \cdot \cdot \cdot - \cdot \cdot - \cdot}{- \cdot \cdot \cdot - \cdot \cdot \cdot - \cdot}) = - m^3/kg$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{p_b \cdot d_c \cdot 10^9} = \frac{-- \cdot (-- \cdot -- \cdot)}{-- \cdot -- \cdot} = - m^3/kg$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

S-27 =
$$VF'_{ML} = \frac{VF_{ML}}{10} = \frac{..}{..}$$
 = - m^3/kg

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-29 = \frac{s}{\rho_b} \cdot [(K_d \cdot \rho_b) + \theta_u + (H' \cdot \theta_a)] = \frac{170}{1.589} \cdot [(3.488 \cdot 1.589) + 0.343 + (0.324 \cdot 0.077)]$$

$$= 632 \text{ mg/kg}$$

Electronic Filing: Received, Clerk's Office 10/23/2020 Chemical: Ethylbenzene Incident #: 951012

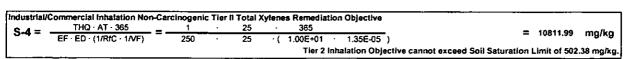
Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A.	Site Identificat	ion			
	IEMA Incident	# (6- or 8-digit):			951012 IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (r	not a <u>P.O. Box):</u>	101 Ea	st O	uter Belt Drive
	City: Clayton	ı	County	:	Adams Zip Code: 62324
В.	Tier 2 Calculat	ion Information	l		
	Equations(s) U	sed: S4 S5	5 S8 S9 S1	0	S17 S18 S19 S20 S21 S22 S24 S25 S29
		 -			ned Calculations:
					oup, (618) 533-6740
	Land Use:	Industrial/C	ommercial -	Tot	tal Xylenes Soil Type: Sitt Clay Loam
	Groundwater:	X Class I	Cla	ss I	ı
	Mass Limit:	Yes	X No		If Yes, then Specify Acreage: 0.5 1 2 5 10 30
	Land Use:	Industrial/C	Commercial		Chemical: Total Xylenes Incident #: 951012
	Input Value	Unit	Symbol	_	
	-	уr	AT	<u> </u>	Average time for Noncarcinogens in Ingestion Equation
	25	ут	AT AT	Ŀ	Average time for Noncardinogens in Ingestion Equation (CW)
	0.115	yr yr	AT	÷	Average time for noncarcinogens in Inhalation equation Average time for noncarcinogens in Inhalation equation (CW)
_	0.110	yr yr	AT _c	÷	Averaging time for Carcinogens
	70	kg	BW	٠	Body Weight (noncarcinogens)
		kg	BW	-	Body Weight (carcinogens)
	70	kg	BW	-	Body Weight (CW)
	502.38	mg/kg	C		Soil Saturation Concentration
	200.0000	mg/L	C _w	-	Target Soil Leachate Concentration
	11.590	m	d	-	MixIng Zone Depth
	3.048	m	ď,	-	Aquifer Thickness 10 ft
		Ð	d.	ı	Depth of Source (Vertical thickness of contaminatio
	3.30E-06	cm²/s	D _A	-	Apparent Diffusivity
	7.35E-02	cm²/s	D _i	-	Diffusivity in Air
	9.23E-06	cm²/s	D,	-	Diffusivity in Water
	20	unitless	DF	-	Dilution Factor
	<u> </u>	уr	ED	•	Exposure duration for ingestion of carcinogens
<u> </u>		yr	ED	_	Exposure duration for ingestion of carcinogens (CW)
⊢	- -	ут	ED ED	╚	Exposure duration for ingestion of noncarcinogens
┝	 -	yr yr	ED ED	٠	Exposure duration for ingestion of noncarcinogens (CW) Exposure duration for inhalation of carcinogens
$\overline{}$		ут	ED	-	
	25	уг	ED	Ξ	Exposure duration for inhalation of noncacrinogens
	1	yr	ED	-	Exposure duration for inhalation of noncacrinogens (CW)
	25	yr	ED	-	
-	<u> </u>	yr	ED	-	Exposure duration for the direct ingestion of groundwater (CW) Exposure duration for migration to groundwater Mass-Limit Equation S28
-	250	yr d/yr	ED _{ML}	-	Exposure frequency
	30	d/yr	EF	-	Exposure frequency (CW)
	-	unitless	F(x)	-	Function dependent on U _m /U _t
	0.0109	g/g	foc	-	Fractional Organic Carbon
	10.00000	mg/L	GW _{eb}	•	Groundwater remediation objective
	0.27100	unitless	H	-	Henry's Law Constant (25 C)
<u>—</u> ,	777	unitless	H	-	Henry's Law Constant (13 C) for Indoor Inh Exp.
_	0.029794872 0.3	m/m m/yr	- i -	-	Hydraulic Gradient Infiltration Rate
	-	m/yr	l _{ML}	Ī	Infiltration rate for migration to groundwater Mass-Limit Equation S28
_		(mg-yr)/(kg-d)	™. IF _{ect-ed}		Age adjusted Soil Ingestion Factor for Carcinogens
_	50	mg/d	IR _{ed}		Soil Ingestion Rate
	480	mg/d	IR _{ed}	Ē	Soil Ingestion Rate (Construction Worker)
	1	L/d	IR _w		Daily Water Ingestion Rate
	42.88896	m/yr	K	·	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
	4.3382	cm³/g or L/kg	K,	_	Soll-Water Partition Coefficient (Non-ionizing organics)
	\$19&pH	cm³/g or L/kg	K,		Soil-Water Partition Coefficient (Ionizing organics)
A	pp C, Table J	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Inorganics)
	398.00000	cm³/g or L/kg	K _o		Organic Carbon Partition Coefficient
	13	m/yr	K	_	Saturated Hydraulic Conductivity
	80.772	m	 L	-	Source Length Parallel to Groundwater Flow 265
	-	m³/kg	PEF		Particulate Emission Factor
	-	m³/kg	PEF'	-	Particulate Emission Factor adjusted for Agitation (construction worker)
	85.81	(g/m²-s)/(kg/m³	O/C	<u>.</u>	Inverse of the mean concentration at the center of a square source (PEF equations)
	85.81	(g/m²-s)/(kg/m³)	Q/C	·	Inverse of the mean concentration at the center of a square source (PEF CW equations)
	85.81	(g/m²-s)/(kg/m³	Q/C	-	Inverse of the mean concentration at the center of a square source (VF equations)
	85.81	(g/m²-s)/(kg/m³	Q/C		Inverse of the mean concentration at the center of a square source (VF CW equations)
	1.00E-01	mg/m³	RfC	<u>∸</u>	Inhalation Reference Concentration
	4.00E-01	mg/m³	RfC	•	Inhalation Reference Concentration (CW)

	Land Use:	Industrial/C	Commercial		Chemical:	Total Xylenes	Incident #:	951012
Г	2.00E-01	mg/(kg-d)	RfD _a	_	Oral Reference Do	en.		
H	4.00E-01			H	1			
H	1.10E+02	mg/(kg-d)	RfD,	Ŀ	Oral Reference Do	se (CW)		
Н		mg/L		÷	Solubility in Water			
H	7.005.00	(mg/kg-d) ⁻¹	SF.	Ŀ	Oral Slope Factor			
H	7.90E+08 3.60E+06	\$	T	ŀ	Exposure Interval	Manage		
H	3.60E*00	.5		ŀ	1 '	Construction Worker)		
\vdash		yr	Turk	-	4 '	or Mass-Limit Volatilization	on Factor Equation S26	
⊦		unitless	THQ	Ŀ	Target Hazard Que			
H	 -	unitless unitless	TR TR	ŀ	Target Cancer Risk	k k (Construction Worker)		
Н		m/s	U _m	H	1 ''	•		
H				ŀ	Mean Annual Wind	•		
H		(ug/m³) ⁻¹	URF	ŀ	Inhalation Unit Ris		_	
⊦	 _	m/s	u,	۰	4	old Value of Wind speed a	at 7m	
⊦		unitless	V	Ŀ	Fraction of Vegativ			
H	740 <u>54.76</u>	m³/kg	VF	-	Volatilization Facto			
L	499.91	m³/kg	VF	<u> </u>	Volatilization Facto	or adjusted for Agitation		
L		m³/kg	VF _M L	_	Mass-Limit Volatili:	zation Factor		
L		m³/kg	VF	-	Mass-Limit Volatili:	zation Factor adjusted for	Agitation	
L	0.420	Lpore/Lyon	_ η	-	Total Soil Porosity			
L	0.077	اليها/ليوا	О а	-	Air Filled Soil Poro	sity		
L	0.343	L/Lyon	θw	-	Water Filled Soil P	orosity		
L	1.589	kg/L or g/cm ³	Ρδ	ľ	Dry Soil Bulk Dens	ity		
L	2.74	g/cm ³	ρз	t	Soil Particle Densit	ty		
L	1	unitless	pw	١	Water Density			
L	0.054	unitless	1/(2b+3)	-	Exponential in Equ	ation S20		
<u>-</u>								
μ	quation	Result	Unit(s)					
1	S1 =		matra					

Equation		Result	Unit(s)
S1	=		mg/kg
\$1 (CW)	π_	_	mg/kg
S2	=		mg/kg
S3	=	_	mg/kg
\$3 (CW)	=		mg/kg
_ \$4	=	502.380	mg/kg
S5	=	279.782	mg/kg
S6	=		mg/kg
S 7	=		mg/kg
S17	=	502.380	mg/kg
S28			mg/kg
S29	=	502.38	mg/kg
S30	=	**	mg/m³
S30 (CW)	=		mg/m³

Industrial	//Commercial Ingestion Tier II Total	Xylenes	Objecti	ve for N	on-Caro	inoger	ic Cont	aminants	i					
S-1 -	THQ · BW · AT · 365										_			
3-1-	10 ⁻⁶ · (1/RfD _e) · EF · ED · IR _{soll}	-		-		-		-	٠	-	=	-	•	mg/kg



Construct	tion Worker Inhalation Non-Carcin	ogenic	Tier II	Total Xyl	enes	Remediati	on C	Objective		
S-5 =	THQ · AT · 365	1	-	0.115		365			_	= 279.78 mg/kg
5-5 -	EF · ED · (1/RfC · 1/VF')	30	•	1	- (2.50E+00	•	0.002	_)	= 275.70 Hig/kg
									_	

Industrial	/Commercial Inhalation Tier II Carcino	genic (Objecth	/e		-						
S-6 =	TR · ATc · 365			-	_					_		ma(ka
J-0 -	URF · 1000 · EF · ED · 1/VF	_	•	-	-	•	-	•	-	_	_	iliging

Industrial/Commercial

mg/kg

Construction Worker Inhalation Tier II Carcinogenic Objective

Industrial/Commercial VF

S-8 =
$$\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 3.3E-06 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 3.30E-06} = 7.41E+04$$

S-8 =
$$\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot p_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 3.30E \cdot 06 \cdot 3.60E + 06)^{1/2} \cdot 1E \cdot 04}{2 \cdot 1.589 \cdot 3.3E \cdot 06} = 5.00E + 03$$

Equation for Derivation of Volatilization Factor - Construction Worker VF'

S-9 =
$$\frac{VF}{10}$$
 = $\frac{4999.09}{10}$ = 499.91 m²/kg

Equation for Derivation of Apparent Diffusivity
$$S-10 = \frac{(\theta_u^{3.53} \cdot D_i \cdot H') + (\theta_u^{3.53} \cdot D_w)}{\eta^2} \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_e \cdot H')}$$

$$= \frac{(0.000199 - 7.35E-02 - 2.71E-01) + (-2.83E-02 - 9.23E-06)}{0.176461319}$$

$$= \frac{1}{(-1.589 - 4.3382) + 0.342718 + (-0.077 - 2.71E-01)} = 3.30E-06$$

Fugitive Dust Equations

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

| Industrial/Commercial Equation for Derivation of Particulate Emission Factor | S-15 =
$$\frac{O}{C} \cdot \frac{3600}{0.036 \cdot (1 - V) \cdot (U_m/U_t)^3 \cdot F(x)} = \frac{- \cdot (- - -) \cdot (- -)^3 \cdot (-)^3 \cdot (- -)^3 \cdot$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

$$S-16 = \frac{PEF}{10} = \frac{-}{m^3/kg}$$

Soll Component of the Migration to Groundwater Cleanup Objective Class I

S-17 = C_a [K_d +
$$\frac{(\theta_a + \theta_a + H')}{\rho_b}$$
] = 200 [4.3382 + $\frac{0.342718 + 0.077}{1.589}$ = 913.415 mg/kg

Tier 2 Migration to GW Objective cannot exceed Soil Saturation Limit of 502.38 mg/kg.

Target Soil Leachate Concentration Class I

Land Use:

Industrial/Commercial

Soll-Water Partition Coefficient

S-19 = K_{oc} ⋅ f_{oc} = 398.00 · 0.0109

= 4.3382

Water-Filled Porosity

S-20 =
$$\eta \cdot \frac{I^{1(2b+3)}}{I^{1(2b+3)}}$$

S-20 =
$$\eta \cdot \frac{1^{1(2b+3)}}{K_a}$$
 = 0.42007 $\cdot \frac{0.3}{13}$

= 0.3427

Air-Filled Porosity

= 0.077355

Dilution Factor

S-22 = 1 +
$$\frac{\text{K} \cdot \text{l} \cdot \text{d}}{1 \cdot \text{L}}$$
 = $\frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772}$ + 1

Tier I) Class I Groundwater Ingestion

Total Soil Porosity

Estimation of Mixing Zone Depth

S-25 =
$$(0.0112 \cdot L^2)^{0.5} + d_a \cdot (1 \cdot exp \frac{(-L \cdot I)}{(K \cdot i \cdot d_a)}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

S-26 =
$$\frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_b \cdot 10^6} = - \frac{-\cdot \cdot (-\cdot \cdot -\cdot -\cdot)}{-\cdot \cdot \cdot \cdot -\cdot \cdot -\cdot }$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

S-26 =
$$\frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_a \cdot 10^6} = - \cdot \frac{-- \cdot (3.15 \cdot 10^7)}{-- \cdot (3.15 \cdot 10^7)}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_b} = \frac{1}{1 \cdot 1 \cdot 1}$$

$$S-29 = \frac{S}{\rho_b} \cdot [(K_a \cdot \rho_b) + \Theta_a + (H' \cdot \theta_a)] = \frac{110}{1.589} \cdot [(4.3382 + 1.589) + 0.343 + (0.271 + 0.077)]$$

502 mg/kg

Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A.	Site Identificati	on			
	IEMA Incident #	# (6- or 8-digit):			951012 IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (n	ot a <u>P.O. Box):</u>	<u>101 Eas</u>	t O	uter Belt Drive
	City: Clayton	ı	County		Adams Zip Code: 62324
В.	Tier 2 Calculat	ion Information			
	Equations(s) U	sed: <u>\$4 \$5</u>	S8 S9 S1	0	\$17 \$18 \$19 \$20 \$21 \$22 \$24 \$25
	Contact Informa	ation for Individu	al Who Per	om	ned Calculations:
	Kelly Tensr	neyer, Chase Er	vironmenta	Gr	oup, (618) 533-6740
	Land Use:	Industrial/C	ommercial <u>-</u>	Na	ohthalene Soil Type: Silt Clay Loam
	Groundwater:	X Class I	Ca	ss li	
	Mass Limit:	Yes	X No		If Yes, then Specify Acreage: 0.5 1 2 5 10 30
	Land Use:	_Industrial/C	Commercial		Chemical: Naphthalene Incident #: 951012
	Input Value	Unit	Symbol		
		ут	AT	•	Average time for Noncarcinogens in Ingestion Equation
	25	yr yr	AT AT	-	Average time for Noncarcinogens in Ingestion Equation (CW) Average time for noncarcinogens in Inhalation equation
	0.115	ут	AT		Average time for noncarcinogens in Inhalation equation (CW)
		yr	ΑT _c	-	Averaging time for Carcinogens
	70	kg	BW	Ŀ	Body Weight (noncarcinogens)
_		kg	_ BW	-	Body Weight (carcinogens)
_	70	kg	BW	-	Body Weight (CW)
-		mg/kg	C _{ee}	-	Soil Saturation Concentration
_	2.8000 11.590	mg/L	<u>C.</u>	÷	Target Soil Leachate Concentration Mixing Zone Depth
	3.048	w w	d,	_	Aquifer Thickness 10 ft
		m m	d.	-	Depth of Source (Vertical thickness of contamination
	2.79E-07	cm²/s	D _A	_	Apparent Diffusivity
_	5.90E-02	cm²/s	D,	÷	
_	7.50E-06	cm²/s		-	Diffusivity in Air
	20	cm /s unitless	D _w	-	Diffusivity in Water Dilution Factor
		yr	ED	÷	Exposure duration for ingestion of carcinogens
	-	ýr	ED	-	Exposure duration for ingestion of carcinogens (CW)
	-	yr	ED	-	Exposure duration for ingestion of noncarcinogens
μ.		yr ·	ED	-	Exposure duration for ingestion of noncarcinogens (CW)
┝		ут ут	ED	•	Exposure duration for inhalation of carcinogens Exposure duration for inhalation of carcinogens (CW)
	25	УT	ED	-	Exposure duration for inhalation of noncacrinogens
	1	уг	ĘD	•	Exposure duration for inhalation of noncacrinogens (CW)
	25	Уŗ	ED	-	' '
-	<u> </u>	yr 	ED _{M4}	-	Exposure duration for the direct ingestion of groundwater (CW) Exposure duration for migration to groundwater Mass-Limit Equation S28
_	250	d/yr	EF.	÷	Exposure frequency
	30	d/yr	EF	-	Exposure frequency (CW)
	-	unitless	F(x)		Function dependent on U _m /U _i
	0.0109	g/g	foc	٠	Fractional Organic Carbon
	0.14000	mg/L	GW⊶	-	Groundwater remediation objective
	0.01970	unitless	H'	·	Henry's Law Constant (25 C)
	0.00829 0.029794872	unitless m/m	H	•	Henry's Law Constant (13 C) for Indoor Inh Exp. Hydraulic Gradient
	0.3	m/yr	i	-	Infiltration Rate
	-	m/yr	اسر	•	Infiltration rate for migration to groundwater Mass-Limit Equation S28
	-	(mg-yr)/(kg-d)	IF _{sol-ad}		Age adjusted Soil Ingestion Factor for Carcinogens
	50	mg/d	IR _{ed}	-	Soil Ingestion Rate
	480	mg/d	IR _{ed}	-	Soil Ingestion Rate (Construction Worker)
	1	Ľd	IR _W		Daily Water Ingestion Rate
	42.88896	m/yr	K	•	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
_	5.45	cm³/g or L/kg	K₀ .	-	Soil-Water Partition Coefficient (Non-ionizing organics)
_	S19&pH	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Ionizing organics)
_^	pp C, Table J	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Inorganics)
	500.00000	cm³/g or L/kg	Kec	-	Organic Carbon Partition Coefficient
	13	m/yr	К.	•	Saturated Hydraulic Conductivity
	80.772	m m³/kq	L	-	Source Length Parallel to Groundwater Flow 265
		m²/kg m³/kg	PEF PEF	÷	Particulate Emission Factor Particulate Emission Factor adjusted for Agitation (construction worker)
	85.81	(g/m²-s)/(kg/m³)	Q/C	-	Inverse of the mean concentration at the center of a square source (PEF equations)
	85.81	(g/m²-s)/(kg/m³	Q/C	•	Inverse of the mean concentration at the center of a square source (PEF CW equations)
	85.81	(g/m²-s)/(kg/m³	Q/C		Inverse of the mean concentration at the center of a square source (VF equations)
	85.81	(g/m²-s)/(kg/m³	QC		Inverse of the mean concentration at the center of a square source (VF CW equations)
1	3.005-03	ma/m³	DIC	_ 1	Inhelation Reference Concentration

RfC _ Inhalation Reference Concentration (CW)

Land Use:	Industrial/0	Commercial		Chemical: Naphthalene Incident #: 951012	_	12312	.020
2.00E-02	mg/(kg-d)	RfD,	T .	ral Reference Dose			
6.00E-01	mg/(kg-d)	RfD _a	-	al Reference Dose (CW)			
3.10E+01	mg/L	S	_	slubility in Water			
	(mg/kg-d) ⁻¹	SF.	-	al Slope Factor			
7.90E+08	<u>s</u>	<u>T</u>	-	posure Interval			
3.60E+06	<u>з</u> ут	TME	 -	posure Interval (Construction Worker) posure Interval for Mass-Limit Volatilization Factor Equation S26			
1	unitless	THQ	 -	rget Hazard Quotient			
	unitless	TR	Ŀ	rrget Cancer Risk			
 -	unitless	TR	ŀ	rget Cancer Risk (Construction Worker)			
3 405 05	m/s (ug/m³) ⁻¹	U _m	<u> -</u>	ean Annual Wind speed			
3.40E-05 -	m/s	URF U	 -	halation Unit Risk Factor 0 puivalent Threshold Value of Wind speed at 7m			
	unitless	V	 -	action of Vegative Cover			
254621.82	m³/kg	VF		platilization Factor			
1718.83	m³/kg	VF	Ŀ	statilization Factor adjusted for Agitation			
	m³/kg	VF _{ML}	Ŀ	ass-Limit Volatilization Factor			
	m³/kg	VF	-	ess-Limit Volatilization Factor adjusted for Agitation			
0.420	Lproy/Laca	n	<u> -</u>	otal Soil Porosity			
0.077	L _a /L _{col}	G a	-	r Filled Soil Porosity			
0.343	Lustines a com	θw	┞╌	ater Filted Soil Porosity			
1.589 2.74	kg/L or g/cm³	Ps ps	H	y Soil Bulk Density xil Particle Density			
1	unitless	ps pw	 -	ater Density			
0.054	unitless	1/(2b+3)	Ŀ	openential in Equation S20			
Equation	D =14	11-141	1				
Equation S1 =	Result	Unit(s) mg/kg	1				
S1 (CW) =		mg/kg	1				
S2 =		mg/kg]				
S3 =	_	mg/kg	1				
S3 (CW) = S4 =	1115.244	mg/kg mg/kg	ł				
S5 =	7.215	mg/kg	1				
\$6 =		mg/kg					
S7 = S17 =	_	mg/kg mg/kg	ł				
S28 =	_	mg/kg	1				
S29 =		mg/kg]				
_S30 =	<u></u>	mg/m³	1				
S30 (CW) =		mg/m³	J				
Industrial/Comme	ercial Ingestion	Tier II Napt	nthal	e Objective for Non-Carcinogenic Contaminants			
	HQ · BW · AT · 3		_	· · · · · · · · · · · · · · · · · · ·	=	_	mg/kg
10**	(1/RfD _o) · EF · ED) · IR _{ed}					
			hale	Remediation Objectives for Non-Carcinogenic Contaminants			
	HQ x BW x AT x : (1/RfD _a) x EF x EE		_		=	-	mg/kg
10 x	(I/RID ₀) X EF X EL	X IR _{eal}					
Residential Inges	tion Tier II Card	cinogenic C)bje:	/0			-
S-2 =	rr · at _e · 365	=	-	· · · · · · · · · · · · · · · · · · ·	=		mg/kg
Sf _a	10° · EF · IF	-4	-	· - · · -			
Industrial/Comme	arcial Ingestion	Tier II Card	ino	nic Objective			
S-3 =	R · BW · AT _e · 3	=	_		=	_	mg/kg
Sf.	10° · EF · ED	· IR _{soll}					5. 0
Construction Wo	rker Ingestion T	ier II Carci	nog	c Objective			
S-3 = -	K · BW · AT _c · 3	=	_	. ' 	=		mg/kg
Sf _o ·	10 · EF · ED	· IR _{ept}		· · · · · · · · · · · · · · · · · · ·			
				c Tier II Naphthalene Remediation Objective			
S-4 = -EF	THQ - AT - 365 ED - (1/RfC - 1/V	 =	250	25 365 25 (3.33E+02 3.93E-06)	=	1115.24	mg/kg
	,	•		. , ,			
Construction Wo	rker Inhalation	Non-Carcine	oger	Tier II Naphthatene Remediation Objective			
S-5 =				0.115 365	=	7,21	mg/kg
EF	ED · (1/RfC · 1/V	F)	30	1 (3.33E+02	-		aa
							_
Industrial/Comme							
S-6 = -	TR · ATc · 365	=	_		=	_	mg/kg
1105	1000 · EF · ED	· 1/VF					5 .0
ÇKI" ·							

Land Use:

Industrial/Commercial

Chemical: Naphthalene Incident #:

Construction Worker Inhalation Tier II Carcinogenic Objective

mg/kg

S-8 = $\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{3/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 2.79E-07 \cdot 7.90E+08)^{3/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 2.79E-07}$

= 2.55E+05 m³/kg

S-8 = $\frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^4}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 2.79E-07 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 2.79E-07}$

= 1.72E+04

m³/kg

Equation for Derivation of Volatilization Factor - Construction Worker VF

S-9 = $\frac{\text{VF}}{10}$ = $\frac{17188.32}{10}$

= 1718.83

m³/kg

Equation for Derivation of Apparent Diffusivity
$$S-10 = \frac{(\theta_e^{3.55} \cdot D_i \cdot H') + (\theta_w^{3.55} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_e \cdot H')}$$

= (<u>0.000199 · 5.90E-02 · 1.97E-02)+(2.83E-02 · 7.50E-06)</u> 0.176461319

= 2.79E-07

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

mg/kg

mg/kg

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

mg/kg

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

S-14 = $\frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{- \cdot - -}{- \cdot - \cdot}$ mg/kg

m³/kg

m³/kg

Equation for Derivation of Particulate Emission Factor, PEF' CW

m³/ka

Soil Component of the Migration to Groundwater Cleanup Objective Class I

S-17 = C_w [K_a + $\frac{(\theta_w + \theta_a + H')}{\rho_b}$] = 2.8 [5.45 + $\frac{0.342718 + 0.077 + 1.97E-02}{1.589}$] = 15.867 mg/kg

Target Soil Leachate Concentration Class I

= 20.00 · 0.14 S-18 = DF · GW_{ees}

= 2.800

Land Use: Industrial/Commercial

Soil-Water Partition Coefficient

 $K_{oc} \cdot f_{oc}$ = 500.00 · 0.0109 = 5.45

Water-Filled Porosity

S-19 =

$$S-20 = \eta - \frac{I^{1(2b+3)}}{K_s} = 0.42007 - \frac{0.3}{13}$$

Air-Filled Porosity

$$\eta - \omega = 0.42007 - 0.34272$$

S-22 = 1 +
$$\frac{K \cdot i \cdot d}{I \cdot L}$$
 = $\frac{42.889 \cdot 0.02979 \cdot 11,59}{0.3 \cdot 80.772}$ + 1

$$= \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1$$

Tier II Class I Groundwater Ingestion

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{2}$$

Estimation of Mixing Zone Depth

S-25 =
$$(0.0112 \cdot L^2)^{0.5} + d_s \cdot (1 - \exp{\frac{(-L \cdot I)}{(K \cdot i \cdot d_s)}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

S-26 =
$$\frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_b \cdot 10^9} = - \cdot \frac{-- \cdot (-- \cdot -- --)}{-- \cdot -- \cdot -- -- })$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

Soil Saturation Limit

mg/m³

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

S-30 = $\frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{--}{--} \cdot \frac{--}{+} \cdot \frac{--}{$

R-26 MODELING EQUATIONS

lilinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL & RBCA Input Parameters for Use with Tier 2 Calculations

Α. :	Site Identificat	юп			
	IEMA Incident	# (6- or 8-digit):	951012	<u>-</u>	IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (r	ot a P.O. Box):	101 Ea	st C	tuter Belt Drive
	City: Claytor	1	County	:	Adams Zip Code: 62324
в. '	Tier 2 Calculat	ion Information	, , 1		
	Equations(s) U	sed: \$17 \$1	8 S19 S20 :	S21	S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
					ned Calculations:
					oup, (618) 533-6740
	Land Use:	Industrial/C	commercial ·	Ве	nzene SSL Soil Type: Silt Clay Loam
	Groundwater:	X Class I	Cle	iss l	RBCA Soit Type:Default
	Mass Limit:	Yes	X No		If Yes, then Specify Acerage: 0.5 1 2 5 10 30
	Results from S	17/\$28 used in I	R26? X	Ye	No Specify C _{source} from S17/S28 0.077 mg/L
	Land Use:	Industrial/C	Commercial		Chemical: Benzene Incident #: 951012
	. Parameters				
	Input Value	Input Unit Inp	ut Descript	ion	
	0.1000	mg/L	<u>C.,</u>	-	Target Soil Leachate Concentration
	11.590	m	_d	Ŀ	Mixing Zone Depth
	3.048	m	d.	-	Aquifer Thickness 10 ft
		m	d.	-	Depth of Source (Vertical thickness of contaminatio
	20	unitless	DF	-	Dilution Factor 1.61121 S-22 Value
	25	уг	ED	١.	Exposure duration for the direct ingestion of groundwater
		ут	EDML	Ι.	Exposure duration for migration to groundwater Mass-Limit Equation S28
-	250				1
		d/yr	EF.	-	Exposure frequency
	30	d/yr_	EF	۱÷	Exposure frequency (CW)
	0.0109	9/9	foc	<u> </u>	Fractional Organic Carbon
	0.00500	mg/L	GW _æ	٠.	Groundwater remediation objective
	2.30E-01	unitless	H,	•	Henry's Law Constant
0	.029794872	m/m	i	-	Hydraulic Gradient
	0.3	m/yr		-	Infiltration Rate
		m/yr	l _{M-L}	1	Infiltration rate for migration to groundwater Mass-Limit Equation S28
				╌	
		L/d	IR _w	ļ	Daily Water Ingestion Rate
	42.88896	m/yr	Κ	-	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
	0.545	cm³/g or L/kg	K₄	-	Soil-Water Partition Coefficient (Non-ionizing organics)
	S19&pH	cm ³ /g or L/kg	K,	-	Soil-Water Partition Coefficient (Ionizing organics)
Δε	op C, Table J	cm³/g or L/kg	K,	<u> </u>	Soil-Water Partition Coefficient (Inorganics)
				Ť	· · · · · · · · · · · · · · · · · · ·
	5.00E+01	cm³/g or L/kg	К,,,	Ŀ	Organic Carbon Partition Coefficient
	13	m/yr	К,	Ŀ	Saturated Hydraulic Conductivity
	80.772	m	<u> </u>	Ŀ	Source Length Parallel to Groundwater Flow 265 ft
	0.420	ليميه/ليموا	l n	-	Total Soil Porosity
	0.077	الساليما	Θa	Ι.	Air Filled Soil Porosity
	0.343		·	Η-	L
		Lymphy/Lyce	O w	÷	Water Filled Soil Porosity
	1.589	kg/L or g/cm³	Pa		Dry Soil Bulk Density
	2.74	g/cm³	ρ_s	Ŀ	Soil Particle Density
	1	unitiess	ρ.,	-	Water Density
	0.054	unitless	1/(2b+3)		Exponential in Equation S20
₹BC	A Parameters				
	029794872	cm/cm	i	-	Hydraulic Gradient
	11.75	cm/d	К		Agulfer Hydraulic Conductiv 1.36E-04 cm/sec
	4.29E+03	cm/yr	К	Ţ	Aquifer Hydraulic Conductiv 1.36E-04 cm/sec
	304.8	cm	Sa	-	Source Width Perpendicular to Grundwater Flow Direction in Verti 10 ft
	8930.64	cm	S _w	Ι-	Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
_	0.81419		J _w	H	Specific Discharge
_		cm/d		Ė	l i e e e e e e e e e e e e e e e e e e
	0.219			-	Average Soil Moisture Content
	ation Specific		X	Ė	Distance along the Centerline of the Groundwater Plume Emanating from a Source
	0.082009	cm³,/cm³ _{tot}	θ,,	_	Volumetric Air Content in Vadose Zone Soils
_ (0.347991	cm³ _{water} /cm³ _{so}	θ,,,		Volumetric Water Content in Vadose Zone Soils
	0.43	cm³/cm³ _{sot}	θτ	-	Total Soil Porosity
		d ⁻¹		\vdash	•
	9.00E-04		λ -	Ė	First Order Degradation Contant
	1.589	g/cm³	P ₀	Ŀ	Soll Bulk Density
	1	g/cm³	ρ _w	Ŀ,	Water Density

Industrial/Commercial Incident #: Land Use: Chemical: Benzena Soil Component of the Migration to Groundwater Cleanup Objective Class I

S-17 = C_w - { K_a + $\frac{(\theta_a + \theta_a + H')}{\rho_b}$ } = 0.1000 - { 0.545 + $\frac{0.342718 + 0.077 + 2.30E-01}{1.589}$ } = 0.077 mg/kg

Target Soil Leachate Concentration Class I

S-18 = DF · GW_{abj} = 20.00 · 0.005 = 0.100

Soil-Water Partition Coefficient

S-19 = = 50.00 · 0.0109 = 0.545

Water-Filled Porosity

= 0.42007 · 0.3 0.054 = 0.3427

Air-Filled Porosity

S-21 = η – θ. = 0.42007 - 0.34272 = 0.07736

Dilution Factor

= 1.61121

Total Soil Porosity

= 1 - 1.589 = 0.42007

Estimation of Mixing Zone Depth

S-25 = $(0.0112 \cdot L^2)^{0.5} + d_a \cdot (1 - \exp{\frac{(-L - I)}{(K \cdot i \cdot d_a)}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$ = 11,590 m

| Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route | S-28 = \frac{(C_a \cdot \text{Im} \cdot \text{EDm})}{p_b \cdot d_a} = \frac{0.1000}{1.589} \cdot \frac{--}{--} \cdot \frac{--}{--} mg/kg

Specific Discharge

 $R-19 = \frac{K \cdot I}{\Theta_T}$ = 0.81419 cm/d

Volumetric Air Content in Vadose Zone Soils

 $R-21 = \theta_T. \frac{w \cdot \rho_b}{\rho_w}$ = 0.08201

Volumetric Water Content in Vadose Zone Soils

0.22 $R-22 = \frac{w \cdot \rho_b}{}$ = 0.34799

Total Soil Porosity

 $R-23 = \theta_{as} + \theta_{ws}$ = 0.08201 + 0.34799= 0.43

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GW_{ob)}

S-18 = GW_{obj} = ______C__ DF

Sample Location	Sall Conc.		v = (soil con at modeling (Equation	point) /		GW _{abj} = (_		R	!-16: a _x = 0.	10 · X	R-17	7; a	_y = c	Ļ/3	R-16	: а	, = a	,/ 20
	mg/kg			_ C.,		ÐF	GW _{eeq}			X (cm)	a,	α _x			a,	a,			a,
F-1	0.28	\Box	0.077	3.628	1	20	0.181376	0.1	•	_1219.2	121.92	121.92	7	3	40.64	121.92	7	20	6.096
W-1	0.161	1	0.077	2.086	1	20	0.104291	0.1		640.08	64.008	64.008	I	ß	21.336	64.008	7	20	3.2004
W-2	1.21	[7]	0.077	15.676	1	20	0.783803	0.1	٠	2651.76	265.176	265.176	7	3	88.392	265.176	7	20	13.2588
W-3	0.552	7	0.077	7.151	1	20	0.357569	0.1	,	1889.76	188.976	188.976	7	3	62.992	188.976	7	20	9.4488
W-4	0.34	7	0.077	4.405	1	20	0.220242	0.1	-	1402.08	140.208	140.208	1	3	46.736	140.208	7	20	7,0104
W-5	1.02	\Box	0.077_	_13.215	7	20	0.660726	0.1		2499.36	249.936	249.936	1	3	83.312	249.936	7	20	12.4968
_W-6	5.15	7	0.077	66.720	7	20	3.336019	0.1	•	4236.72	423.672	423.672	7	3	141.224	423.672	7	20	21.1836
W-7	8.62	7	0.077	111.676	7	20	5.583783	0.1	₹	4876.8	487.68	487.68	7	3	162.56	487.68	7	20	24,384
W-8	37.7	\Box	0.077	488,419	7	20	24.420954	0.1	٠	6827.52	682.752	682.752	7	3	227.584	682.752	7	20	34.1376
W-9	24.3	7	0.077	314.817	7	20	15.740827	0.1	$\overline{}$	6217.92	621.792	621.792	7	3	207.264	621.792	7	20	31.0896
W-10	3.54	7	0.077	45.862	7	20	2.293108	0.1	-	3810	381	381	7	3	127	381	7	20	19.05
W-11	15.4	7	0.077	199.513	7	20	9.975668	0.1		5608.32	560.832	560.832	1	3	186.944	560.832	1	20	28.0416
W-12	11.6	7	0.077	150.283	7	20	7.514140	0.1	•	5242.56	524.256	524.256	7	3	174.752	524.256	7	20	26.2128
_W-13	2.08	7	0.077	26.947	7	20	1.347363	0.1		3230.88	323.088	323.088	7	3	107.696	323.088	7	20	16.1544
W-14	22.3	7	0.077	288.906	7	20	14.445286	0.1	•	6096	609.6	609.6	7	3	203.2	609.6	7	20	30.48
W-15	7.4	7	0.077	95.870	1	20	4.793503	0.1	-	4663.44	466.344	466.344	7	3	155.448	466.344	7	20	23.3172
W-16	10.4	7	0.077	134.736	7	20	6.736815	0.1	▔	5090.16	509.016	509.016	7	3	169.672	509.016	7	20	25.4508
W-17	6.12	1	0.077	79.287	7	20	3.964356	0.1		4450.08	445.008	445.008	7	3	148.336	445.008	7	20	22.2504
W-18	11.5	7	0.077	148.987	1	20	7.449363	0.1		5242.56	524.256	524,256	7	3	174.752	524.256	7	20	26.2128
BH-6B	0.233	1	0.077	3.019	1	20	0.150931	0.1	$\overline{}$	1005.84	100.584	100.584	7	3	33.528	100.584	7	20	5.0292
BH-6C	0.146	7	0.077	1.891	1	20	0.094575	0.1	٠	518.16	51.816	51.816	7	3	17.272	51.816	7	20	2.5908
BH-7B	8.42	1	0.077	109.085	1	20	5.454229	0.1	•	4846.32	484.632	484.632	1	3	161.544	484.632	7	20	24.2316
BH-16A	4.81	7	0.077	62.316	1	20	3.115777	0.1		4175.76	417.576	417.576	1	3	139.192	417.576	7	20	20.8788
BH-16B	5.81	7	0.077_	_ 75.271	1	20	3.763548	0.1		4389.12	438.912	438.912	7	3	146.304	438.912	7	20	21.9456
BH-16C	7.45	7	0.077	96.518	1	20	4.825891	0.1	$\overline{}$	4693.92	469.392	469.392	1	3	156.464	469.392	7	20	23.4696
BH-20B	8.19	7	0.077	106.105	1	20	5.305242	0.1		4815.84	481.584	481.584	1	3	160.528	481.584	7	20	24.0792
BH-20C	7.64	7	0.077	98.979	7	20	4.948968	0.1		4724.4	472,44	472.44	1	3	157.48	472.44	1	20	23.622

Sample Location		те	rm 1	•=	[X /(2 · ax)]	1					•	"Ter	m 2	?" = {1 - S	QR	Τ[1 + (4 · λ ·	α,) .	/ (U)])				ſ	31 =	S _w / (4 - SQ	RΤ[c	a _y · X])	
	X (cm)				α_{\star}	"Term 1"								λ		α _ε		U	"Term 2"	S.,				O _y		x	β1
F-1	1219.2	7	2		121.92	5	1	- 1	1	+	4	Τ.	Т	0.0009		121.92		0.81419	-0.24060	8930.64	7	4	-1	40.64		1219.2	10.03017
W-1	640.08	1	2	$\overline{}$	64.008	5	1	- √	1	+	4	. -	Т	0.0009	•	64.008	,	0.81419	-0.13270	8930.64	7	4	.√	21.336		640.08	19.10508
W-2	2651.76	1	2		265.176	5	1	- 1	1	+	4			0.0009		265.176	٠.	0.81419	-0.47394	8930.64	7	4	.√	88.392	·	2651.76	4.611572
W-3	1889.76	1	.2		188.976	5	1	- √	1	+	4		Т	0.0009	•	188.976		0.81419	-0.35483	8930.64	7	4	٠4	62.992		1889.76	6.471077
W-4	1402.08	1	2	·	140.208	5	1	- 1	1	+	4		Т	0.0009		140.208		0.81419	-0.27277	8930.64	7	4	.1	46.736	•	1402.08	8.721886
W-5	2499.36	1	2		249.936	5	1	- √	1	+	4	. [-	Т	0.0009	٠	249.936	•	0.81419	-0.45090	8930.64	7	4	1	83.312	$\overline{}$	2499.36	4.892766
W-6	4236.72	7	2		423.672	5	1	- √	1	+	4	. [-	Т	0.0009		423.672	•	0.81419	-0.69508	8930.64	\Box	4	.√	141,224	·	4236.72	2.88638
W-7	4876.8	1	2	$\overline{\cdot}$	487.68	5	1	- V	1	+	4	. -	Т	0.0009	•	487.68		0.81419	-0.77660	8930.64	7	4	.√	162.56		4876.8	2.507542
W-8	6827.52	1	2		682.752	5	7	- 1	1	+	4			0.0009	$ \cdot $	682.752	,	0.81419	-1.00470	8930.64	7	4	1.4	227.584	$\overline{}$	6827.52	1.791102
W-9	6217.92	7	2		621.792	5	1	- √	1	+	4	·		0.0009	٠	621.792	•	0.81419	-0.93631	8930.64	II	4	1	207.264	Ŀ	6217.92	1.9667
W-10	3810	Ī	2	$\lceil \cdot \rceil$	381	5	1	- 1	1	+	4	·		0.0009	•	381	,	0.81419	-0.63848	8930.64	1	4	. 1	127		3810	3.209654
W-11	5608.32	1	2		560.832	5	-	- 1	1	+	4			0.0009	•	560.832	٠	_0.81419	-0.86541	8930.64	7	4	١.٨	186.944	•	5608.32	2.180472
W-12	5242.56	1	2		524.256	5	-	- √	1	+	4			0.0009	٠	524.256	•	0.81419	-0.82155	8930.64	7	4	٧.	174.752		5242.56	2.332598
W-13	3230.88	Ī	2		323.088	5	-	- 1	1	+	4	. [-		0.0009	٠	323.088	٠	0.81419	-0.55838	8930.64	17	4	٠,	107.696		3230.88	3.78497
W-14	6096	1	2	<u> </u>	609.6	5	-	- 1	1	+	4	. [-	Т	0.0009	٠	609.6		0.81419	-0.92234	8930.64	7	4	-4	203.2	•	6096	2.006034
W-15	4663.44	1	2		466.344	5	1	- 1	1	+	4	Γ		0.0009		466.344	•	0.81419	-0.74985	8930.64	7	4	.√	155.448_		4663.44	2.622266
W-16	5090.16	1	2	\cdot	509.016	5	-	- 1	1	+	4		\perp	0.0009	٠	509.016	·	0.81419	-0.80296	8930.64	\Box	4	14	169.672		5090.16	2.402436
W-17	4450.08	Ľ	2		445.008	5	7	- 1	1	+	4	Π-	Т	0.0009	٠	445.008		0.81419	-0.72268	8930.64	7	4	-√	148.336		4450.08	2.747992
W-18	5242.56	1	2		524.256	5	1	[-√	1	+	4	- J		0.0009	·	524.256	٠	0.81419	-0.82155	_8930.64	7	4	.√	174.752	$[\cdot]$	5242.56	2.332598
BH-6B	1005.84	1	2	•	100.584	5	1	- √	1	+	4			0.0009	•	100.584		0.81419	-0.20197	8930.64	1	4	-4	33.528	•	1005.84	12.15778
BH-6C	518.16	1	2	•	_51.816	5	1	- 1	1	+	4		Т	0.0009	٠	51.816		0.81419	-0.10865	8930.64	7	4	1.4	17.272	•	518.16_	23.6004
BH-7B	4846.32	1	2	\cdot	484.632	5	1	- 1	1	+	4	Ţ -	Т	0.0009	٠	484.632	٠	0.81419	-0.77280	8930.64	7	4	.4	161.544		4846.32	2.523313
BH-16A	4175.76	7	2		417.576	5	1	- 1	1	+	4			0.0009	•	417.576	٠.	0.81419	-0.68711	8930.64	7	14	-√	139.192	$\overline{\cdot}$	4175.76	2.928517
BH-16B	4389.12	7	2	•	438.912	5	1	- 1	1	+	4	Ţ.	T	0.0009	•	438.912		0.81419	-0.71484	8930.64	II	4	-1	146.304	•	4389.12	2.786158
BH-16C	4693.92	1	2		469.392	5	1	- 1	1	7	4		T	0.0009	•	469.392		0.81419	-0.75370	8930.64	7	4	1.7	156.464		4693.92	2.605239
BH-20B	4815.84	I	2		481.584	5	1	- 1	1	+	4	T		0.0009		481.584		0.81419	-0.76900	8930.64	7	4	-1	160.528	·	4815.84	2.539283
BH-20C	4724.4	1	2		472.44	5	1	- 1	1	+	4	T	_[_	0.0009		472.44		0.81419	-0.75753	8930.64	7	4	1.1	157.48	oxdot	4724.4	2.588431
								Γ		Ι_	T	Т	1									1					

Land	Use:	Ind	ustr	ial/C	Commercial		Chemica	l:	Benzene	<u> </u>	Incident i	;		951	012					
Sample Location			β2	2 = 8	Sd / (2 · SQF	₹∏०	z · X])		erf: S 742_APPI Tab	ENDIX C:			C(x) = C+++	***	, e ^{(Term 1} ')	отн 1	⁾ · erf(β ₁)		erf(β ₂)	
	S₄				0,		X	β2	erf(β1)	erf(β2)	Cecarco		"Term 1"		"Term 2"		erf(81)		erf(β2)	C(x)
F-1	304.80	1	2	-4	6.096	•	1219.2	1.768	1	0.987581	0.181376	·e	5.000	•	-0.241		1.000000	٠	0.987581	0.053790
W-1	304.80	7	2	7	3.2004	•	640.08	3.367	1	0.999998	0.104291	· е	5.000		-0.133		1.000000	•	0.999998	0.053714
W-2	304.80	1	2	7	13.2588	•	2651.76	0.813	1	0.749619	0.783803	• в	5.000		-0.474	٠	1.000000	٠	0.749619	0.054942
W-3	304.80	7	2	7	9.4488		1889.76	1.140	1	0.893234	0.357569	·e	5.000		-0.355	•	1.000000	٠	0.893234	0.054177
W-4	304.80	1	2	7	7.0104	ŀ	1402.08	1.537	1	0.970288	0.220242	· e	5.000	•	-0.273	·	1.000000	•	0.970288	0.054638
W-5	304.80	7	2	1	12.4968	٠	2499.36	0.862	1	0.77735	0.660726	· e	5.000	•	0.451	ŀ	1.000000	٠	0.777350	0.053892
W-6	304.80	1	2		21.1836	٠	4236.72	0.509	0.999955	0.528121	3.336019	· e	5.000		-0.695	•	0.999955	·	0.528121	0.054525
W-7	304.80	1	2	7	24.384	٠	4876.8	0.442	0.999609	0.468029	5.583783	• ө	5.000	٠	-0.777		0.999609	$\overline{}$	0.468029	0.053785
W-8	304.80	1	2	?	34.1376	١	6827.52	0.316	0.988691	0.344712	24.420954	· e	5.000	•	-1.005	•	0.988691	:	0.344712	0.054776
W-9	304.80	1	2	7	31.0896		6217.92	0.347	0.994586	0.376005	15.740827	- ө	5.000		-0.936	•	0.994586		0.376005	0.054537
W-10	304.80	1	2	7	19.05	,	3810	0.566	0.999994	0.576289	2.293108	٠в	5.000	٠	-0.638		0.999994	·	0.576289	0.054277
W-11	304.80	7	2	7	28.0416	·	5608.32	0.384	0.997955	0.413199	9.975668	·e	5.000		-0.865	•	0.997955		0.413199	0.054325
W-12	304.80	1	٩	1	26.2128		5242.56	0.411	0.999029	0.439026	7.514140	- ө	5.000		-0.822	•	0.999029	$\overline{}$	0.439026	0.054198
W-13	304.80	1	2	$\overline{}$	16.1544		3230.88	0.667	1	0.654522	1.347363	· e	5.000		-0.558		1.000000	-	0.654522	0.054062
W-14	304.80	7	2	7	30.48	•	6096	0.354	0.995445	0.382925	14.445286	·e	5.000	•	-0.922		0.995445	ŀ	0.382925	0.054704
W-15	304.80	7	2	V	23.3172	Ŀ	4663.44	0.462	0.999791	0.486627	4.793503	• е	5.000		-0.750	٠	0.999791	٠	0.486627	0.054888
W-16	304.80	1	2	1	25.4508		5090.16	0.423	0.99932	0.450695	6.736815	• е	5.000		-0.803		0.999320	٠	0.450695	0.054758
W-17	304.80	1	2	7	22.2504		4450.08	0.484	0.999898	0.506613	3.964356	• е	5.000	•	-0.723	•	0.999898		0.506613	0.054140
W-18	304.80	.7	2	١٧	26.2128		5242.56	0.411	0.999029	0.439026	7.449363	• е	5.000	,	-0.822		0.999029	Ŀ	0.439026	0.053730
BH-6B	304.80	1	2		5.0292	Ŀ	1005.84	2.143	1	0.997557	0.150931	·е	5.000	•	-0.202	•	1.000000	٠	0.997557	0.054845
BH-6C	304.80	1	2		2.5908		518.16	4.159	1	1	0.094575	• е	5.000		-0.109	Ŀ	1.000000	Ш	1.000000	0.054934
BH-78	304.80	1	2	7	24.2316	Ŀ	4846.32	0.445	0.999641	0.470606	5.454229	·e	5.000	\Box	-0.773	Ŀ	0.999641	Ŀ	0.470606	0.053841
BH-16A	304.80	1	2	7	20.8788	Ŀ	4175.76	0.516	0.999966	0.534565	3.115777	ė	5.000	•	-0.687	$\overline{}$	0.999966		0.534565	0.053643
BH-16B	304.80	7	2	7	21.9456	·	4389.12	0.491	0.999919	0.512596	3.763548	· e	5.000		-0.715	·	0.999919	Ŀ	0.512596	0.054085
BH-16C	304.80	1	2		23.4696	·	4693.92	0.459	0.999771	0.483888	4.825891	· e	5.000	٠	-0.754		0.999771	•	0.483888	0.053900
BH-20B	304.80	1	2	7	24.0792	·	4815.84	0.448	0.999671	0.473208	5.305242	. 6	5.000		-0.769		0.999671	•	0.473208	0.053673
BH-20C	304.80	1	2	7	23.622	Ŀ	4724.4	0.456	0.999748	0.481177	4.948968	· e	5.000	•	-0.758	•	0.999748	٠	0.481177	0.053919
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Land Use:	Industrial/Commercial	Chemical:	Benzene	Incident #:	951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Soive S-18 for GWaa)

Sample Location	Soil Conc.		v = (soil con at modeling (Equation	point) /		GW _{obj} = (_/DF		R-	16: α, = 0.	10 · X	R-1	7: c	ı _y = 0	ı _x /3	R-18	: a,	, = a,	/ 20
	mg/kg			C*		DF	GW₂ы	Ш		X (cm)	a,	α _κ			a,	Q _x			a,
BH-21A	4.31		0.077	55.838	1	20	2.791892	0.1		4023.36	402.336	402.336	1	3	134.112	402.336	\perp	20	20.1168
BH-21B	17.6		0.077	228.015	1	20	11.400764	0.1		5791.2	579.12	579.12	1	3	193.04	579.12	-	20	28.956
BH-23B	2.71	1	0.077	35.109	1	20	1.755459	0.1	•	3505.2	350.52	350.52	7	3	116.84	350.52	7	20	17.526
BH-23C	2.56	[7]	0.077	_33.166	1	20 _	1.658293	0.1	•	3474.72	347.472	347,472	1	3	115.824	347.472	7	20	17.3736
BH-3B	1.28	1	0.077	16.583	1	20	0.829146	0.1	•	2712.72	271.272	271.272	1	3	90.424	271.272	7	20	13.5636
BH-3C	5.27	1	0.077	68.275	/	20	3.413751	0.1	•	4267.2	426.72	426.72	1	3	142.24	426.72	7	20	21.336
BH-4C	0.09	1/1	0.077	1,166	1	20	0.058299	0.1		91.44	9.144	9.144	1	3	3.048	9.144	7	20	0.4572
BH-10B	1.9	1	0.077	24.615	1	20	1.230764	0.1	•	3200.4	320.04	320.04	II	3	106.68	320.04	7	20	16.002
BH-10C	7.38	II	0.077	95.611	/	20	4.780548	0.1	•	4663.44	466.344	466.344	7	3	155.448	466.344		20	23.3172
BH-14B	0.545	7	0.077_	7.061	1	20	0.353035	0.1		1920.24	192.024	192.024	7	3	64.008	192.024	7	20	9.6012
BH-26A	0.106	1	0.077	1.373	1	20	0.068664	0.1		304.8	30.48	30.48	II	3	10.16	30.48_	\mathcal{I}	20	1.524
BH-26B	4.64	[/]	0.077	60.113	1	20	3.005656	0.1	,	4114.8	411.48	411.48	1	3	137.16	411.48		20	20.574
BH-27A	3.38	[/]	0.077	43.789	1	20	2.189465	0.1	$[\cdot]$	3962.4	396.24	396.24	1	3	132.08	396.24	7	20	19.812
BH-36	0.146	1	0.077	1.891	1	20	0.094575	0.1		548.64	54.864	54.864	1	3	18.288	54.864	\mathcal{I}	20	2.7432
OS-1	18.1	1	0.077	234.493	1	20	11.724649	0.1		5943.6	594.36	594.36	7	3	198.12	594.36	1	20	29.718
OS-2	37.9	1	0.077	491.010	1	20	24.550508	0.1		6858	_685.8	685.8	7	3	228.6	685.8	7	20	34.29
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Sample Location		"Te	rm 1	* =	[X /(2 · ax)]	I						*Te	m	2* = {1 - S	GR.	Т[1 + (4 · λ ·	α _x) .	/ (U)]}				ţ	31 =	S _w / (4 · SQI	₹Т[о	t _y · X])	
	X (cm)				a,	"Term 1"								λ		a,		U	"Term 2"	S.				a _y		X	β1
BH-21A	4023.36	7	2		402.336	5	1	- 1	1	+	T	Т	T	0.0009	•	402.336		0.81419	-0.66702	8930.64	1	4	1	134.112		4023.36	3.039445
BH-21B	5791.2	1	2	Ŀ	579.12	5	1	- 1	1	+	T 4	Т	₁	0.0009	$oldsymbol{ au}$	579.12	-	0.81419	-0.88696	8930.64	1	4	1.1	193.04	١.	5791.2	2.111615
BH-23B	3505.2	1	2		350.52	5	1	- 1	1	+	4		•	0.0009	Ŀ	350.52		0.81419	-0.59682	8930.64	1	4	[.√	116.84	•	3505.2	3.488755
BH-23C	3474.72	7	2		347.472	5	1	- 1	1	+	T 4	Т	$\cdot \top$	0.0009	ļ -	347.472		0.81419	-0.59260	8930.64	1	4	-4	115.824	•	3474.72	3.519358
BH-3B	2712.72	1	2		271,272	5	1	- 1	1	.+	14	П	: 1	0.0009	1	271.272		0.81419	-0.48305	8930.64	1	4	.√	90.424		2712.72	4.507941
BH-3C	4267.2	1	2		426.72	5	1_	- 1	1	+	4	П	•]	0.0009	•	426.72	•	0.81419	-0.69905	8930.64	1	4	[.√	142.24	•	4267.2	2.865763
BH-4C	91.44	7	2	· 1	9.144	5	1	- 1	1	+	14	Т	. [0.0009	ļ -	9.144		0.81419	-0.02002	8930.64	7	4	-√	3.048	$\overline{}$	91.44	133.7356
BH-10B	3200.4	7	2	ŀ	320.04	5	1	- 1	1	+	4	Т	न	0.0009	1	320.04		0.81419	-0.55405	8930.64	7	4	Ī₹	106.68	1	3200.4	3.821017
BH-10C	4663.44	1	2		466.344	5	1	-1	1	+	14			0.0009		466.344		0.81419	-0.74985	8930.64	7	4	V	155.448		4663.44	2.622266
BH-14B	1920.24	7	2	T -	192.024	5	1	- 1	1	1 +	7	Т	7	0.0009	·	192.024		0.81419	-0.35980	8930.64	7	4	1-7	64.008		1920.24	6.368361
BH-26A	304.8	7	2		30.48	5	1	- 1	1	+	14	Т	- 1	0.0009	1	30.48		0.81419	-0.06526	8930.64	7	4	1.1	10.16	•	304.8	40.12068
BH-26B	4114.8	1	2	·	411.48	5	1	- √	1	+	4	Т	. [0.0009	Ţ.	411.48	7	0.81419	-0.67910	8930.64	7	4	-√	137.16	·	4114.8	2.971902
BH-27A	3962.4	7	2	1 .	396.24	5	1	- √	1	+	4	П	٠ [0.0009	ī	396.24		0.81419	-0.65892	8930.64	1	4		132.08		3962.4	3.086206
BH-36	548.64	7	2		54.864	5	1	- 1	1	+	4	П	⋰	0.0009	·	54.864		0.81419	-0.11471	8930.64	7	4	1.1	18.288		548.64	22.28927
OS-1	5943.6	7	2		594.36	. 5	1	-√	1	+	14	П	- 1	0.0009	Ţ.	594.36	·	0.81419	-0.90473	8930.64	7	4	-√	198.12		5943.6	2.057471
OS-2	6858	7	2		685.8	5	1:	- 1	1	+	14	П	7	0.0009	T -	685.8		0.81419	-1.00806	8930.64	1	4	1-1	228.6		6858	1.783141
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Land	Use:	Inc	lustr	ial/C	Commercial		Chemica	: <u> </u>	Benzene	·	Incident #	* :		951	012					
Sample '			β2	2 = 5	Sd / (2 · SQF	शा	z - X])		erf: S 742.APPE Tabl	ENDIX C:			C(x) = C-00	urca	. e ^(Term 1-T)	erm Z	· erf(β ₄)	. ,	erf(β ₂)	
	S,				a ₂		x	β2	erf(β1)	erf(β2)	Cacarte		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C(x)
BH-21A	304.80	7	2	ķ	20.1168		4023.36	0.536	0.999983	0.551295	2.791892	. 6	5.000	•	-0.667	٠	0.999983		0.551295	0.054810
BH-21B	304.80	7	2	ż	28.956	·	5791.2	0.372	0.997176	0.401331	11.400764	· e	5.000	•	-0.887_		0.997176		0.401331	0.054100
BH-23B	304.80	7	2	ż	17.526	$\overline{}$	3505.2	0.615	0.999999	0.615462	1.755459	· e	5.000		-0.597		0.999999		0.615462	0.054652
BH-23C	304.80	7	2	ż	17.3736	•	3474.72	0.620	0.999999	0.619618	1.658293	· e	5.000		-0.593		0.999999	•	0.619618	0.053085
BH-3B	304.80	1	2	,	13.5636	•	2712.72	0.795	1	0.738815	0.829146	. 6	5.000	•	-0.483		1.000000		0.738815	0.054730
_BH-3C	304.80	1	2	?	21.336		4267.2	0.505	0.999949	0.524949	3.413751	∙el	5.000	•	-0.699		0.999949	•	0.524949	0.054370
BH-4C	304.80	7	2	7	0.4572		91.44	23.570	1	1	0.058299	. 0	5.000		-0.020_		1.000000		1.000000	0.052747
BH-10B	304.80	1	2	7	16.002	•	3200.4	0.673	1	0.659096	1.230764	• 8	5.000		-0.554		1.000000	ŀ	0.659096	0.050817
BH-10C	304.80	7	2	7	23.3172		4663.44	0.462	0.999791	0.486627	4.780548		5.000	٠	-0.750	•	0.999791	•	0.486627	0.054740
BH-14B	304.80	1	2	7	9.6012	,	1920.24	1.122	1	0.887556	0.353035	· e	5.000	٠	-0.360	٠	1.000000	٠	0.887556	0.051847
BH-26A	304.80	1	2	7	1.524	•	304.8	7.071	1	1	0.068664	. 6	5.000	٠	-0.065_	\perp	1.000000	Ŀ	1.000000	0.049548
BH-26B	304.80	1	2	ż	20.574	-	4114.8	0.524	0.999974	0.541149	3.005656	·e	5.000	•	-0.679	٠	0.999974	٠	0.541149	0.054524
BH-27A	304.80	1	2	7	19.812	•	3962.4	0.544	0.999987	0.558244	2.189465	. 6	5.000	٠	-0.659	٠	0.999987		0.558244	0.045325
BH-36	304.80	1	2	7	2.7432	•	548.64	3.928	1	1	0.094575	• ө	5.000		-0.115	٠	1.000000		1.000000	0.053294
OS-1	304.80	7	2	ŗ	29.718		5943.6	0.363	0.996382		11.724649		5.000	•	-0.905	٠	0.996382	Ŀ	0.391923	0.049674
OS-2	304.80	7	2	7	34.29	ŀ	6858	0.314	0.988322	0.343279	24.550508	- е	5.000	-	-1.008	٠	0.988322		0.343279	0.053905
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GROUNDY	WATER R-2	5 MC	DE	LING															
Sample	Groundwate concentration			-16; α _x = 0.	10 · X	R-1	7: a	ı _y = (1,/3	R-18	: α,	, = a,	. / 20		тe	rm 1	* =	[X /(2 · a _z)]	
	mg/L	l		X (cm)	Œ,	α _x			a,	a,			O ₂	X (cm)				o,	Term 1"
MW-3	0.342	0.1		4267.2	426.72	426.72	1	3	142.24	426.72	1	20	21.336	4267.2	1	2		426.72	5
MW-4	0.809	0.1	\vdash	5334	533.4	533.4		3	177.8	533.4		20	26.67	5334	7	2		533.4	5
MW-5	7	0.1		8412.48	841.248	841.248		3		841.248		20	42.0624	8412.48	7	2	Ι-	841.248	5
MW-20	0.0658	0.1	•	2499.36	249.936	249.936	1	3	83.312	249.936		20	12.4968	2499.36	7	2	┍	249.936	5
MW-21	0.38	0.1	·	4389.12	438.912	438.912	1	3	146,304	438.912	1	20	21.9456	4389.12	1	2		438.912	5
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Sample Location					•	Геm	1 2" = {1 - S	QR'	T[1 + (4 · λ ·	α _x)	/ (U)])				β	:1 ≖	S., / (4 · SQI	₹T[c	ı _y · X])	
							λ		a,		U	"Term 2"	S.				α _y		x	β1
MW-3	1	- 1	1	+	4		0.0009		426.72		0.81419	-0.69905	8930.64	1	4	.√	142.24		4267.2	2.865763
MW-4	1	- ٧	1	+	4		0.0009	-	533.4	·	0.81419	-0.83261	8930.64	7	4	.√	177.8		5334	2.29261
MW-5	1	7	1	+	4	-	0.0009	·	841.248	· .	0.81419	-1.17247	8930.64	1	4	V	280.416	$\overline{}$	8412.48	1.453648
MW-20	1	-	1	+	4	•	0.0009	,	249.936	·	0.81419	-0.45090	8930.64	1	4	V	83.312	Ŀ	2499.36	4.892766
MW-21	1	7	1	+	4	$\overline{}$	0.0009	·	438.912		0.81419	-0.71484	8930.64	1	4	1	146.304	•	4389.12	2.786158
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Land	Use:	Inc	lustr	ial/C	Commercial		Chemica	l:	Benzene	<u> </u>	Incident #	‡ :		951	012					
Sample Location			β	2 = 5	6d / (2 · SQI	₹ŦĮa	z · X])		erf: S 742,APPI Tab	ENDIX C:			C(x) = C =co	ro+	• e ^{(Term 1 - Te}	ern Ż	¹ · erf(β ₁)	٠,	orf(β ₂)	
	_ S₀				a,		х	β2	erf(β1)	erf(β2)	C_cource		Term 1*		"Term 2"_		erf(β1)		erf(β2)	C(*)
MW-3	304.80	7	2		21.336	•	4267.2	0.51	0.999949	0.524949	0.342000	• ө	5.000000		-0.699051	-	0.999949		0.524949	0.005447
MW-4	304.80	7	2	7	26.67		5334	0.40	0.998814	0.432291	0.809000	٠ø	5.000000		-0.832612	•	0.998814		0.432291	0.005435
MW-5	304.80	1	2	1	42.0624		8412.48	0.26	0.960195	0.282886	7.000000	• е	5.000000		-1.172473	-	0.960195	•	0.282886	0.005408
MW-20	304.80	7	2	V	12.4968	٠	2499.36	0.86	_ 1	0.77735	0.065800	÷	5.000000		-0.450900		1.000000		0.777350	0.005367
MW-21	304.80	1	2	7	21.9456	·	4389.12	0.49	0.999919	0.512596	0.380000	. 8	5.000000	•	-0.71 <u>48</u> 42		0.999919	•	0.512596	0.005461
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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL & RBCA Input Parameters for Use with Tier 2 Calculations

L. Site Identificat	lon			
IEMA Incident	# (6- or 8-digit):	951012	<u>!</u>	IEPA LPC # (10 digit): 10105006
Site Name:	Parker's Gas &	More		
Site Address (r	not a <u>P.O. Box):</u>	101 Ea	st C	outer Belt Drive
City: Clayton	1	County	:	Adams Zip Code: 62324
3. Tier 2 Calcutat	ion information	,		
Equations(s) U	sed: \$17.51	8 S19 S20 :	S 21	S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
_				ned Calculations:
				roup, (618) 533-6740
Land Use:	Industrial/C	Commercial -	То	luene SSL Soil Type: Silt Clay Loam
Groundwater:	X Class I	Ca	ss i	RBCA Soil Type: Default
Mass Limit:	Yes	X No		If Yes, then Specify Acerage: 0.5 1 2 5 10 30
Results from S	17/S28 used in I	R26? X	Ye	No Specify C _{soutes} from S17/S28 39.021 mg/L
Land Use:	Industriat/0	Commercial		Chemical: Toluene Incident #: 951012
SL Parameters				
Input Value	input Unit Inp	ut Descript	ion	
20.0000	mg/L	C _w	-	Target Soil Leachate Concentration
11.590	m	d	Ŀ	Mixing Zone Depth
3.048	m	d_	-	Aquifer Thickness 10 ft
_	m	d,	-	Depth of Source (Vertical thickness of contamination
20	unitless	DF	-	Dilution Factor 1.61121 S-22 Value
25	yr'	ED	-	Exposure duration for the direct ingestion of groundwater
-	ут	ED	Ī -	Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	-	Exposure frequency
30	d/yr	EF	Ι.	Exposure frequency (CW)
0.0109	9/9	foc	Ι.	Fractional Organic Carbon
1.00000	mg/L	GW _{ab}	Ι.	Groundwater remediation objective
2.71E-01	unitless	H.	┝	Henry's Law Constant
0.029794872	m/m		Ë	Hydraulic Gradient
0.029794872	m/yr	 	Ė	Infiltration Rate
-	m/yr		 −	1
	† ' 	- MAL	ŀ	Infiltration rate for migration to groundwater Mass-Limit Equation S28
1 10 2022	L/d	IR _w	!	Daily Water Ingestion Rate
42.88896	m/yr	K	Ŀ	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
1.7222	cm³/g or L/kg	K₄	Ŀ	Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm³/g or L/kg	K₁	-	Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K₄	-	Soil-Water Partition Coefficient (Inorganics)
1.58E+02	cm³/g or L/kg	K _∞	-	Organic Carbon Partition Coefficient
13	m/yr	K,	-	Saturated Hydraulic Conductivity
80.772	m	T.	-	Source Length Parallel to Groundwater Flow 265 ft
0.420	L _{ooy} /L _{sol}	η		Total Soil Porosity
0.077	بيبا/بيبا	Θa	Ι.	Air Filled Soll Porosity
0.343	r e	0a 0w	H	Water Filled Soil Porosity
	موا/سبا		Ė	·
1.589	kg/L or g/cm³	ጮ	Ė	Dry Soil Bulk Density
2.74	g/cm³	Ρ.	-	Soil Particle Density
1	unitless	ρ	_	Water Density
0.054	unitless	1/(2b+3)	Ŀ	Exponential in Equation S20
BCA Parameters	r -			1
0.029794872	cm/cm		Ŀ	Hydraulic Gradient
11.75	cm/d	K	Ŀ	Aquifer Hydraulic Conductiv 1.36E-04 cm/sec
4.29E+03	cm/yr	<u>K</u>	-	Aquifer Hydraulic Conductiv 1.36E-04 cm/sec
304.8	cm	S _d	$\overline{}$	Source Width Perpendicular to Grundwater Flow Direction in Vert 10 ft
8930.64	cm cm/d		÷	Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
0.81419	cm/d	U	÷	Specific Discharge
0.219 ocation Specific		×	÷	Average Soll Moisture Content Distance along the Centerline of the Groundwater Plume Emanating from a Source
	cm ³ _{eir} /cm ³ _{soft}			
0.082009		θ,,	•	Volumetric Air Content in Vadose Zone Soils
	cm ₃ ****/cm ₃ **	θ _{ws}	Ľ	Volumetric Water Content in Vadose Zone Soils
0.43	cm³/cm³	θτ	-	Total Soll Porosity
1.10E-02	d ⁻¹	λ	•	First Order Degradation Contant
1.589	g/cm³	ρδ	-	Soil Bulk Density
1	g/cm³	ρ.,	,	Water Density

Industrial/Commercial Land Use: Chemical: Toluene Incident #: Soil Component of the Migration to Groundwater Cleanup Objective Class I S-17 = $C_w \cdot [K_0 + \frac{(\theta_w + \theta_u + H')}{\rho_b}] = 20.0000 \cdot [1.7222 + \frac{0.342718 + 0.077}{1.589}]$ = 39.021 mg/kg Target Soil Leachate Concentration Class I S-18 = DF · GW_{ed} = 20.00 · 1 = 20,000 Soil-Water Partition Coefficient S-19 = Koc · foc = 158.00 0.0109 = 1.7222 Water-Filled Porosity = 0.42007 • 0.3 = 0.3427

Air-Filled Porosity

S-21 = $\eta - \theta_{-}$ = 0.42007 - 0.34272 = 0.07736

Dilution Factor

S-22 = 1 + $\frac{K \cdot | \cdot d}{I \cdot L}$ = $\frac{42.889 \quad 0.02979 \quad 11.59}{0.3 \quad 80.772}$ + 1 = 1.61121

Total Soil Porasity $S-24 = 1 - \frac{\rho_b}{\rho_s} \qquad = 1 - \frac{1.589}{2.74} \qquad = 0.42007$

Estimation of Mixing Zone Depth $S-25 = (0.0112 \cdot L^2)^{0.5} + d_e - (1 - exp \frac{(-L \cdot I)}{(K \cdot I \cdot d_e)}) = (-0.0112 \cdot 80.772)^{0.5} + -3.048$ $\cdot (1 - exp \cdot (\frac{-80.772}{42.889} \cdot 0.02979 \cdot 3.048)) = -11.590 \text{ m}$

Specific Discharge R-19 = $\frac{K \cdot I}{\Theta_T}$ = $\frac{11.75 \cdot 0.02979}{0.43}$ = 0.81419 cm/d

Volumetric Air Content in Vadose Zone Soils $R-21 = \theta_T \cdot \frac{w \cdot \rho_b}{\rho_w} = 0.43 - \frac{0.22 \cdot 1.589}{1} = 0.08201$

Volumetric Water Content in Vadose Zone Soils

R-22 = $\frac{w \cdot p_b}{\rho_w}$ = $\frac{0.22 \cdot 1.589}{1}$ = 0.34799

Total Soil Porosity

R-23 = $\theta_{ss} + \theta_{ws}$ = 0.08201 + 0.34799 = 0.43

Land Use: Industrial/Commercial Chemical: Totuene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GWool)

Sample Location	Soil Conc.		v = (soil con at modeling (Equation	point) /		GW _{obj} = (C_ / DF		R-	-16: a _a = 0.	10 - X	R-17	7: a	, = c	ų/3	R-18	: α,	, = a,	/ 20
	mg/kg			C.		OF	GW∞			X (cm)	o _x	مر			α _γ	Ċ,			a,
8-W	208	17	39.021	5.330	7	20	0.266520	0.1	· I	137.16	13,716	_ 13.716	1	3	4.572	13.716	1	20	0.6858
W-9	188	1	39.021	4.818	7	20	0.240893	0.1	• [106.68	10.668	10.668	1	3	3.556	10.668	I	20	0.5334
W-11	52.7	1	39.021	1.351	7	20	0.067527	0.1	$\overline{}$	30.48	3.048	3.048	7	3	1.016	3.048	1	20	0.1524
W-12	72.3	1	39.021	1.853	7	20	0.092641	0.1	•	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W-14	22.3	17	39.021	0.571	7	20	0.028574	0.1	╗	3.048	0.3048	0.3048	1	3	0.1016	0.3048	7	20	0.01524
W-16	83.2	17	39.021	2.132	\Box	20	0.106608	0.1	╗	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
W-17	31.1	17	39.021	0.797	7	20	0.039850	0.1	7	3.048	0.3048	0.3048	7	3	0.1016	0.3048	7	20	0.01524
W-18	56.6	1	39.021	1.450	7	20	0.072524	0.1	╗	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-7B	68.5	1	39.021	1.755	7	20	0.087772	0.1	╗	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-16A	26.8	7	39.021	0.687	7	20	0.034340	0.1	. 1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-16B	45.8	7	39.021	1.174	7	20	0.058686	0.1	╗	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-16C	37.2	7	39.021	0.953	7	20	0.047666	0.1	╗	30.48	3.048	3.048	7	3	1.016	3.048	1	20	0.1524
BH-20B	89.7	7	39.021	2.299	7	20	0.114937	0.1	\neg	33.528	3.3528	3.3528	7	3	1.1176	3.3528	7	20	0.16764
BH-20C	23.5	7	39.021	0.602	7	20	0.030112	0.1	コ	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-21A	27.8	7	39.021	0.712	171	20	0.035621	0.1	╗	30.48	3.048	3.048	7	3	1,016	3,048	7	20	0.1524
BH-21B	43.5	7	39.021	1.115	17	20	0.055739	0.1	$\overline{}$	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-3C	24.8	7	39.021	0.636	7	20	0.031777	0.1	. 1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-10C	20.9	7	39.021	0.536	7	20	0.026780	0.1	.	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-26B	18.7	1	39.021	0.479	7	20	0.023961	0.1	•	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-27A	15	7	39.021	0.384	171	20	0.019220	0.1	◡	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
OS-1	160	17	39.021	4.100	\Box	20	0.205015	0.1	\neg	91.44	9.144	9,144	7	3	3.048	9,144	7	20	0.4572
OS-2	367	1	39.021	9.405	\Box	20	0.470254	0.1	_	213.36	21.336	21.336	7	3	7.112	21.336	7	20	1.0668
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Sample Location		•Те	m 1	•=	[X /(2 - ax)	}						Terr	n 2* = {	1 - S	QRI	Π1 + (4·λ·	α _κ)	/ (U)]}				F	31 =	S _w / (4 · SQI	RΠα	_y · X])	
i l	X (cm)				a,	"Term 1"							λ			G*		υ	"Term 2"	S.				a,		X	β1
W-8	137.16	1	2		13.716	5	1	- 1	1	+	4	1 .	0.01	1	. 1	13.716		0.81419	-0.31956	8930.64	1	4	1.1	4.572	•	137.16	89.15706
W-9	106.68	1	2		10.668	5	1	- 7	1	1+	4	T -	0.01	1		10.668	. •	0.81419	-0.25559	8930.64	7	4		3.556		106.68	114.6305
W-11	30.48	1	2		3.048	5	1	- 1	1	+	4	1 :	0.01	1		3.048	,	0.81419	-0.07922	8930.64	1	4	1.1	1.016		30.48	401.2068
W-12	30.48	7	2		3.048	5	1	7	1	+	4	T -	0.01	1		3.048		0.81419	-0.07922	8930.64	1	4	17	1.016		30.48	401.2068
W-14	3.048	1	2	$\overline{}$	0.3048	5	1	- 7	1	1	4	٠.	0.01	1		0.3048	٠	0.81419	-0.00820	8930.64	7	4	1.1	0.1016		3.048	4012.068
W-16	30.48	1	2		3.048	5	1	- 7	1	+	4		0.01	1		3.048		0.81419	-0.07922	8930.64	1	4	-1	1.016		30.48	401.2068
W-17	3.048	7	2		0.3048	5	1	- 1	1	+	4		0.01	1		0.3048		0.81419	-0.00820	8930.64	1	4	1.1	0.1016	1 .]	3.048	4012.068
W-18	30.48	1	2		3.048	5	1	- 1	1	+	4		0.01	1		3.048		0.81419	-0.07922	8930.64	7	4	.√	1.016		30.48	401.2068
BH-7B	30.48	1	2		3.048	5	1	- 1	1	1 +	4	T -	0.01	1	\cdot	3.048		0.81419	-0.07922	8930.64	7	4	1.1	1.016		30.48	401.2068
BH-16A	30.48	7	2		3.048	5	1	- 7	1	+	4	1 .	0.01	1		3.048		0.81419	-0.07922	8930.64	7	4	11	1.016	1-1	30.48	401.2068
BH-16B	30.48	1	2	\Box	3.048	5	1	-7	1	+	4	T -	0.01	1	•	3.048	,	0.81419	-0.07922	8930.64	7	4	17	1.016	П	30,48	401.2068
BH-16C	30.48	7	2		3.048	5	1	-7	1	+	4	Ŀ	0.01	1_		3.048	,	0.81419	-0.07922	8930.64	1	4	7	1.016		30.48	401.2068
BH-20B	33.528	7	2	•	3.3528	5	1	7	1	+	4	T	0.01	1		3.3528	_	0.81419	-0.08683	8930.64	1	4	1	1.1176		33.528	364.7334
BH-20C	30.48	1	2		3.048	5	1	- 1	1	+	4	Τ.	0.01	1		3.048		0.81419	-0.07922	8930.64	1	4	11	1.016		30.48	401.2068
BH-21A	30.48	1	2	$\overline{}$	3.048	5	1	-7	1	+	4		0.01	1		3.048		0.81419	-0.07922	8930.64	1	4	1.1	1.016	$\overline{}$	30.48	401.2068
BH-21B	30.48	7	2		3.048	5	1	7	1	+	4	1 -	0.01	1		3.048	•	0.81419	-0.07922	8930.64	7	4	∙√	1.016	1	30.48	401.2068
BH-3C	30.48	7	2		3.048	5	1	7	1	+	4	T -	0.01	1		3.048		0.81419	-0.07922	8930.64	7	4	1.1	1.016		30.48	401.2068
BH-10C	30.48	17	2	\Box	3.048	5	1	-	1	+	4	1 -	0.01	1		3.048	٠	0.81419	-0.07922	8930.64	1	4	T	1.016		30.48	401.2068
BH-26B	30.48	17	2		3.048	5	1	- 7	ī	1 +	4	T-	0.01	1	$\overline{}$	3.048	$\overline{}$	0.81419	-0.07922	8930.64	7	4	17	1.016	П	30.48	401.2068
BH-27A	30.48	7	2	$\overline{}$	3.048	5	1	- 7	1	+	4	T	0.01	1		3.048	-	0.81419	-0.07922	8930.64	1	4	17	1.016	П	30.48	401.2068
OS-1	91,44	1	2		9.144	5	1	- 1	T	+	4	Τ.	0.01	1		9.144		0.81419	-0.22236	8930.64	1	4	1.1	3.048	\cdot	91.44	133.7356
OS-2	213.36	17	2	•	21.336	5	1	- 1	1	+	4	1 ·	0.01	1	•	21.336	- 1	0.81419	-0.46732	8930.64	7	4	1.1	7.112	·	213.36	57.31525
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Land	Use:	inc	tustr	ial/(Commercial		Chemica	l:	Toluene		tnoident #	¥:		951	012					
Sample Location			β	2 = \$	Sd / (2 · SQF	स्मृत	ız · X])		erf: S 742.APP Tab	ENDIX C:			C(x) = C		, e ^(Term 1-T)	em I	⁾ · erf(β ₁)	. ,	erf(β ₂)	7**
	S₄				a,		X	β2	erf(β1)	erf(β2)	Cecures		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C(x)
W-8	304.80	$\Gamma \tau$	2	1	0.6858	•	137.16	15,713	1	1	0.266520	٠e	5.000	,	-0.320		1.000000		1.000000	0.053929
W-9	304.80	7	2		0.5334	·	106.68	20.203	1	1	0.240893	- е	5.000		-0.256		1.000000	•	1.000000	0.067114
W-11	304.80	7	2	7	0.1524	·	30.48	70.711	1	1	0.067527	٠e	5.000		-0.079	•	1.000000	•	1.000000	0.045441
W-12	304.80	7	2	٠,	0.1524	•	30.48	70.711	1	1	0.092641	- e	5.000	٠	-0.079		1.000000	٠	1.000000	0.062342
W-14	304.80	7	2	$\overline{}$	0.01524	Ŀ	3.048	707.107	1	1	0.028574	·e	5.000	٠	-0.008	٠	1.000000	٠	1.000000	0.027426
W-16	304.80	7	2	7	0.1524	┌	30.48	70.711	1	1	0.106608	·e	5.000	·	-0.079		1.000000	_	1.000000	0.071740
W-17	304.80	7	2	7	0.01524	•	3.048	707.107	1	1	0.039850	·е	5.000	┍	-0.008	•	1.000000	•	1.000000	0.038249
W-18	304.80	7	2	V	0.1524		30.48	70.711	1	1	0.072524	. 6	5.000	•	-0.079	·	1.000000	•	1.000000	0.048804
BH-7B	304.80	7	2	٠.٧	0.1524	·	30.48	70.711	1	1	0.087772	· e	5.000	•	-0.079	,	1.000000		1.000000	0.059065
BH-16A	304.80	1	2	.1	0.1524		30.48	70.711	1	1	0.034340	. 0	5.000		-0.079		1.000000		1.000000	0.023109
BH-16B	304.80	7	2	1	0.1524	·	30.48	70.711	1	1	0.058686	• 6	5.000		-0.079		1.000000		1.000000	0.039492
BH-16C	304.80	7	2	.√	0.1524		30.48	70.711	1	1	0.047666	·e	5.000	•	-0.079		1.000000	,	1.000000	0.032076
BH-20B	304.80	17	2	1	0.16764	┌	33.528	64.282	1	1	0.114937	. ө	5.000	·	-0.087	-	1.000000	$\overline{}$	1.000000	0.074459
BH-20C	304.80	7	2	T	0.1524	┌	30.48	70.711	1	1	0.030112	·е	5.000		-0.079		1.000000		1.000000	0.020263
BH-21A	304.80	17	2	7	0.1524		30.48	70.711	1	1	0.035621	• в	5.000	ŀ	-0.079	·	1.000000	ŀ	1.000000	0.023971
BH-21B	304.80	7	2	V	0.1524	·	30,48	70.711	1	1	0.055739	· e	5.000		-0.079	•	1.000000		1.000000	0.037508
BH-3C	304.80	7	2	V	0.1524	·	30.48	70.711	1	1	0.031777	·e	5.000		-0.079		1.000000		1.000000	0.021384
BH-10C	304.80	7	2	٠.٧	0.1524		30.48	70.711	1	1	0.026780	·e	5.000		-0.079	•	1.000000	•	1.000000	0.018021
BH-26B	304.80	1	2	. 1	0.1524		30.48	70.711	1	1	0.023961	• е	5.000		-0.079		1.000000		1.000000	0.016124
BH-27A	304.80	7	2	1	0.1524	·	30.48	70.711	1	1	0.019220	· e	5.000		-0.079	٠	1.000000	·	1.000000	0.012934
OS-1	304.80	17	2	7	0.4572		91,44	23.570	1	1	0.205015	·e	5.000	·	-0.222	·	1.000000		1.000000	0.067444
OS-2	304.80	17	2	-1	1.0668	┌	213.36	10.102	1	1	0.470254	- е	5.000	-	-0.467	┌	1.000000	·	1.000000	0.045453
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	Groundwate Concentration mg/L 16.4 0 0 0 0 0 0 0 0 0 0 0 0 0	Sroundwate concentration mg/L 16.4 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### R-26 MODE R Stroundwate Concentration Concentrati	R-16: a, = 0. Sroundwate concentratic mg/L	R-16: a = 0.10 · X Sroundwate concentration mg/L	R-16: a, = 0.10 · X R-1 Sroundwate concentration mg/L X (cm) a,	R-16: a = 0.10 · X R-17: c Sroundwate concentratic mg/L X (cm) a a a a a a a a a a a a a a a a a a a	R-16: a, = 0.10 · X	ATER R-26 MODELING R-16: a, = 0.10 · X R-17: a, = a, / 3 Sroundwate concentratic mg/L X (cm) a,	ATTER R-26 MODELING R-16: a = 0.10 · X R-17: a = a / 3 R-18 Broundwate concentration mg/L X (cm) a a a a a a a a a a a a a a a a a a a	ATER R-26 MODELING R-16: a = 0.10 · X R-17: a = a / 3 R-18: a a a a a a a a a a a a a a a a a a a	VATER R-26 MODELING R-16: a, = 0.10 · X R-17: a, = a, / 3 R-18: a, = a Sroundwate concentration mg/L X (cm) a,	VATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x / 3 R-18: a _x = a _x / 20 Sroundwate concentration mg/L X (cm) a _x a	VATER R-26 MODELING R-16: a ₁ = 0.10 · X R-17: a ₇ = a ₁ /3 R-18: a ₂ = a ₁ /20 Sroundwate concentration mg/L X (cm) a ₂ a ₃ a ₄ a ₇ a ₂ X (cm) 16.4 0.11 · 274.32 27.432 27.432 / 3 9.144 27.432 / 20 1.3716 274.32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VATER R-26 MODELING R-16: a = 0.10 · X R-17: a = a / 3 R-18: a = a / 20 "Te Sroundwate Oncentrate Oncentra	VATER R-26 MODELING R-16: a = 0.10 · X R-17: a = a / 3 R-18: a = a / 20 "Term 1 / 20 / 20 / 3 / 20 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 /	VATER R-26 MODELING R-16: a, = 0.10 · X R-17: a, = a, / 3 R-18: a, = a, / 20 *Term 1* = concentratic mg/L X (cm) a, a, a, a, a, a, a, a, a, a	VATER R-26 MODELING R-16: a, = 0.10 · X R-17: a, = a, / 3 R-18: a, = a, / 20 "Term 1" = [X /(2 · a,)] Term 1" = [X /(2 · a,)] "Term 1" = [X /(2 · a,

Sample Location					•	Tern	n 2" = {1 - S	SQR	Τ[1 + (4 · λ ·	α,)	/ (U)]}				P	11 =	S., / (4 · SQ	RT[c	ı _y · X])	
LUCALION	ŀ						λ		a _x		U	"Term 2"	S.				a,		x	β1
MW-5	1	-1	1	+	4	Ŀ	0.011	Ŀ	27.432	Ŀ	0.81419	-0.57558		7	4	·V		·	274.32	44.57853
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Land	l Use:	Inc	lustr	ial/C	Commercial		Chemica	l:	Toluené		Incident i	# :		951	1012					
Sample Location			β	2 = \$	Sd / (2 · SQ)	रग्व	ız · X])			ection ENDIX C: le G			C(x) = C		. g(Term 1-7	erm)	^β · erf(β ₁)	. ,	erf(β ₂)	
	_ S _e				a,		X	β2	erf(β1)	erf(β2)	Caource		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C(x)
MW-5	304.80	7	2	-1		:	_274.32	7.86	1	1	16.400000	٠e		-	-0.575584	-	1.000000		1.000000	
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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL & RBCA Input Parameters for Use with Tier 2 Calculations

 A. Site Identificati 	on			
IEMA Incident #	# (6- or 8-digit):	951012		IEPA LPC # (10 digit): 10105006
Site Name:	Parker's Gas &	More		
Site Address (n	ot a <u>P.O. Box):</u>	101 Ea:	st O	uter Belt Drive
City: Clayton		County		Adams Zip Code: 62324
B. Tier 2 Calculati	on Information			
Equations(s) Us	sed: \$1 <u>7 \$1</u>	8 S19 S20 S	521	S22 S24 S25_R16 R17 R18 R19 R21 R22 R23 R26
Contact Informa	stion for Individu	al Who Per	form	ed Calculations:
Kelly Tensr	neyer, Chase Ei	nvironmenta	l Gr	oup, (618) 533-6740
Land Use:	Industrial/C	ommercial -	Eth	ylbenzene SSL Soll Type: Silt Clay Loam
Groundwater:	X Class I	Cla	ss i	RBCA Soil Type: Default
Mass Limit:	Yes	X No		If Yes, then Specify Acerage: 0.5 11 2 5 10 30
Results from S	17/\$28 used in I	R26? X	Ye:	No Specify C _{source} from S17/S28 52.072 mg/L
Land Use:	Industrial/0	Commercial		Chemical: Ethylbenzene Incident #: 951012
SSL Parameters				
Input Value	Input Unit Inp	ut Descript	ion	
14.0000	mg/L	C,,	Ŀ	Target Soil Leachate Concentration
11.590	m	d	<u> </u>	Mixing Zone Depth
3.048	m	d,	Ŀ	Aquifer Thickness 10 ft
	m	d,	Ŀ	Depth of Source (Vertical thickness of contamination
20	unitless	DF	<u> </u> -	Dilution Factor 1,61121 S-22 Value
25	уг	ED	<u> </u> -	Exposure duration for the direct ingestion of groundwater
	yr	ED _{M-L}	-	Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	-	Exposure frequency
30	d/yr	EF	•	Exposure frequency (CW)
0.0109	9/9	foc	-	Fractional Organic Carbon
0.70000	mg/L	GW _{obi}		Groundwater remediation objective
3.24E-01	unitless	H'	١.	Henry's Law Constant
0.029794872	m/m	· · · · ·	-	Hydraulic Gradient
0.3	m/yr	i	Ι.	Infiltration Rate
	m/yr	1	Η.	Infiltration rate for migration to groundwater Mass-Limit Equation S28
		- IMA	Ť	
1	L/d_	IR _w	<u> </u>	Daily Water Ingestion Rate
42.88896	m/yr	K	ᆣ	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
3.488	cm³/g or L/kg	K₄	Ŀ	Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm³/g or L/kg	K₄	-	Soll-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Inorganics)
3.20E+02	cm³/g or L/kg	K _∞	·	Organic Carbon Partition Coefficient
13	m/yr	K,	Ι.	Saturated Hydraulic Conductivity
80.772	m	L	-	Source Length Parallel to Groundwater Flow 265 ft
0.420			ŀ	
	ليبييا/ليبيها	η	 	Total Soil Porosity
0.077	L_/Lot	Θa	<u> </u>	Air Filled Soll Porosity
0.343	البينيي/اليورا	Θw	Ŀ	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	Ps	-	Dry Soil Bulk Density
2.74	g/cm³	ρ,	-	Soil Particle Density
1	unitless	ρ,,	-	Water Density
0.054	unitless	1/(2b+3)	Ι-	Exponential in Equation \$20
RBCA Parameters			_	
0.029794872	cm/cm	ı	·	Hydraulic Gradient
11.75	cm/d	К	Ŀ	Aguifer Hydraulic Conductiv 1.36E-04 cm/sec
4.29E+03	cm/yr	K	Ŀ	Aquifer Hydraulic Conducti 1.36E-04 cm/sec
304.8	cm	Sa	•	Source Width Perpendicular to Grundwater Flow Direction in Verti 10 ft
8930.64	cm	5,,	-	Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
0.81419	cm/d	Ü	-	Specific Discharge
0.219		w		Average Soll Moisture Content
Location Specific	cm	×	L-	Distance along the Centerline of the Groundwater Plume Emanating from a Source
0.082009	cm3 _{aH} /cm3 _{soll}	6,,	-	Volumetric Air Content in Vadose Zone Soils
0.347991	cm³ _{mare} /cm³ _{so}	θ,γγ	Ι-	Volumetric Water Content in Vadose Zone Soils
0.43	cm ³ /cm ³ _{sol}	ļ	 	
	d ⁻¹	θτ .	- -	Total Soil Porosity
3.00E-03		λ	Ě	First Order Degradation Contant
1.589	g/cm³	ρь	Ŀ	Soll Bulk Density
1	n/cm³		۱ -	Water Density

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: Soil Component of the Migration to Groundwater Cleanup Objective Class I S-17 = C_a $\{ K_a + \frac{(\theta_a + \theta_a + H')}{\rho_b} \} = 14.0000 \cdot \{ 3.488 + \frac{0.342718 + 0.077 \cdot 3.24E-01}{1.589} \}$ = 52.072 mg/kg Target Soil Leachate Concentration Class I = 20.00 · 0.7 DF ∙ GW_{eb} = 14.000Soil-Water Partition Coefficient S-19 = = 320.00 · 0.0109 = 3.488 Water-Filled Porosity = 0.42007 · -= 0.3427Air-Filled Porosity S-21 = դ – 🛭 = 0.42007 - 0.34272 = 0.07736Dilution Factor $= \frac{42.889}{0.3} \cdot \frac{0.02979}{80.772} + 1$ S-22 = 1 + -= 1.61121 **Total Soil Porosity** = 0.42007Estimation of Mixing Zone Depth S-25 = $(0.0112 \cdot L^2)^{0.5} + d_a \cdot (1 - exp \frac{(-L \cdot I)}{(K \cdot i \cdot d_a)}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$ ·(1-exp (-80.772 · 0.3) (42.889 · 0.02979 · 3.048) = 11.590 Mass-Limit Remediation Objective for the Soll Component of the Groundwater Ingestion Exposure Route $S-28 = \frac{(C_{-} \cdot I_{111} \cdot ED_{111})}{P_{0} \cdot d_{1}} = \frac{14.0000 \cdot --- \cdot --}{1.589 \cdot --}$ mg/kg Specific Discharge $R-19 = \frac{K \cdot I}{\theta_T}$ = 0.81419 cm/d Volumetric Air Content in Vadose Zone Soils = 0.43 - 0.22 1.589 $\mathbf{R-21} = \theta_{\mathsf{T}}. \frac{\mathbf{w} \cdot \rho_{\mathsf{b}}}{\rho_{\mathsf{w}}}$ = 0.08201Volumetric Water Content in Vadose Zone Soils $R-22 = \frac{w \cdot \rho_b}{}$ 1.589 = 0.34799 **Total Soil Porosity** $R-23 = \theta_{as} + \theta_{ws}$ = 0.08201 + 0.34799= 0.43

Land Use:	Industrial/Commercial	Chemical:	Ethylbenzene	Incident #:	951012
Modeling Soil C	ontamination to Ground	dwater Table			
Target Soil Leacha	te Concentration (Solve S-1	for GW _{ebl})			
S-18 = GW _{obj}	E C., DF		_		

Semple Location :	Seil Conc.		v = (soil con at modeling (Equation	point) /		GW _{obj} = (Ç, / DF		R-	i6: α _κ = 0.	10 · X	R-1	7: c	L, = 0	ւ / 3	R-18	ı: a,	, = a,	/ 20
	mg/kg			C"	1	DF	G₩щ			X (cm)	α,	a,			a,	a,			a,
W-6	20.7	7	52.072	0.398	1	20	0.019876	0.1		30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
W-7	14.7	[7]	52.072	0.282	1	20	0.014115	0,1	•	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
W-8	57	1/	52.072	1.095_	1	20	0.054732	0.1	·	30.48	3.048	3.048	7	3	1.016	3.048	I	20	0.1524
W-9	59.5	7	52.072	1.143	1	20	0.057132	0.1	\cdot	30.48	3.048	3.048	1	3	1.016	3.048	\overline{I}	20	0.1524
W-10	16.5	7	52.072	0.317	1	20	0.015843	0.1	•	30.48	3.048	3.048	7	3	1.016	3.048	1	20	0.1524
W-11	14.7	17	52.072	0.282	1	20	0.014115	0.1	-	30.48	3.048	3.048	7	3	1.016	3.048	\Box	20	0.1524
W-12	16.7	7	52.072	0.321	7	20	0.016035	0.1		30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W-14	_ 30.6	7	52.072	0.588	1	20	0.029382	0.1		30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W-16	31.1	L	52.072	0.597	1	20	0.029862	0.1	٠	30.48	3.048	3.048	7	3	1.016	3.048	I	20	0.1524
8H-7B	27.4	1	52.072	0.526	1	20	0.026310	0.1	•	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-20B	21.1	7	52.072	0.405	1	20	0.020260	0.1	٠	30.48	3.048	3.048	Γ_L	3	1.016	3.048	$I_{\mathcal{I}}$	20	0.1524
BH-21B	24.1	1	52.072	0.463	1	20	0.023141	0.1	•	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
OS-1	41.2	1	52.072	0.791	1	20	0.039560	0.1	ŀ	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
05-2	117		52.072	2.247	1	20	0.112344	0.1	-	30.48	3.048	3.048	\Box	3	1.016	3.048	\perp	20	0.1524
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Sample Location		*Te	rm 1	- =	[X /(2 · ax)	1						'Te	rm :	2" = {1 - S	OR'	Τ[1 + (4 · λ ·	α")	/ (U)))				F	31 =	S _w / (4 - SQ	₹T[œ	_y · X])	
1	X (cm)				a,	"Term 1"	l							λ		a,		U	"Term 2"	S _w				a,		x	β1
W-6	30.48	1	2		3.048	5	1	- √	1	+	1 4	Τ.	.	0.003		3.048	,	0.81419	-0.02221	8930.64	1	4	-v	1.016	· [30.48	401.2068
W-7	30.48	17	2		3.048	5	1	- 1		+	4	Ţ.	-	0.003	,	3.048	$\overline{}$	0.81419	-0.02221	8930.64	7	4	-1	1.016	\Box	30.48	401.2068
W-8	30.48	17	2	1	3.048	5	1	- √	1	1 +	14	Т.	. T	0.003	·	3.048	$\overline{}$	0.81419	-0.02221	8930.64	7	4	17	1.016	\Box	30.48	401.2068
W-9	30.48	17	2		3.048	5	1	- √	1	Ŧ	4	1		0.003	_	3.048	•	0.81419	-0.02221	8930.64	1	4	1	1.016	-	30.48	401.2068
W-10	30.48	17	2	•	3.048	5	1	- √	1	+	4	Ţ	. [0.003	Ŀ	3.048	·	0.81419	-0.02221	8930.64	7	4	V	1.016	٠	30.48	401.2068
W-11	30.48	1	2	·	3.048	5	1	- √	1	+	4	T		0.003	Ŀ	3.048	ŀ	0.81419	-0.02221	8930.64	7	4] √	1.016	•	30.48	401.2068
W-12	30.48	II	2	\cdot	3.048	5	1	- 1	1	+	4	Ŀ		0.003	٠- ا	3.048		0.81419	-0.02221	8930.64	1	4	-√	1.016	·	30.48	401.2068
W-14	30.48	1	2	٠	3.048	5	1	- √	1	+	4			0.003	٠	3.048		0.81419	-0.02221	8930.64	1	4	⋅√	1.016	•	30.48	401.2068
W-16	30.48	1	2		3.048	5	1	- 4	1	+	4	Ŀ		0.003	Ŀ	3.048	•	0.81419	-0.02221	8930.64	1	4	1.1	1.016	·	30.48	401.2068
BH-7B	30.48	1	2	•	3.048	5	1	- 1	1	+	4	Ι.	.]	0.003	ŀ	3.048	ŀ	0.81419	-0.02221	8930.64	\mathcal{I}	4	ĪV	1.016	·	30.48	401.2068
BH-20B	30.48	1	2	\Box	3.048	5		<u>- v</u>	1	+	4	<u> </u>	<u>. </u>	0.003	i	3.048	٠	0.81419	-0.02221	8930.64	1	4	1	1.016	·	30.48	401,2068
BH-21B	30.48	1	2	Ŀ	3.048	5	11	- 1	1	<u> </u>	4	Ŀ	·	0.003		3.048	Ŀ	0.81419	-0.02221	8930.64	1	4	<u> </u>	1.016	لنا	30.48	401.2068
OS-1	30.48	1	2	\cdot	3.048	5	1	- 1	1	+	4	1		0.003	ŀ	3.048		0.81419	-0.02221	8930.64	1	4	1	1.016		30.48	401.2068
OS-2	30.48	17	2	\mathbf{E}	3.048	5	1	- 1	1	+	4	<u> L</u>	<u>·]</u>	0.003	·	3.048		0.81419	-0.02221	8930.64	1	4	1	1.016	Ŀ	30.48	401.2068
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Land	Use:	_tno	ustr	ial/C	Commercial		Chemica	l: <u> </u>	Ethylbenze	ene	Incident #	‡ :		951	012					
Sample Location			βί	2 = 9	6d / (2 · SQI	₹∏а	z · X])		742.APPI	ection ENDIX C: le G			C(x) = C	#** *	· e ^{(Term 1 - Tr}	eran 2) · erf(β ₁)	٠,	erf(β ₂)	
	Sa				a_z		X	β2	erf(β1)	erf(β2)	Cacarca		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C(x)
W-6	304.80	1	2	. 🗸	0.1524		30.48	70.711	1	1	0.019876	· e	5.000		-0.022		1.000000		1.000000	0.017787
W-7	304.80	7	2	7	0.1524		30.48	70.711	1	1	0.014115	·e	5.000		-0.022		1.000000		1.000000	0.012631
W-8_	304.80	7	2	7	0.1524	·	30.48	70.711	1	1	0.054732	- е	5.000		-0.022		1.000000	٠	1.000000	0.048978
W-9	304.80	17	2	-₹	0.1524	•	30.48	70.711	1	1	0.057132	· e	5.000	_	-0.022		1.000000		1.000000	0.051126
W-10	304.80	17	2	-1	0.1524		30.48	70.711	1	1	0.015843	- e	5.000		-0.022		1.000000		1.000000	0.014178
W-11	304.80	17	2	4	0.1524		30.48	70.711	1	1	0.014115	- e	5.000	$\overline{}$	-0.022		1.000000	•	1.000000	0.012631
W-12	304.80	17	2	-7	0.1524		30.48	70.711	1	1	0.016035	· e	5.000	,	-0.022	$\overline{}$	1.000000		1.000000	0.014350
W-14	304.80	17	2	7	0.1524	•	30.48	70.711	1	1	0.029382	· e	5.000		-0.022		1.000000		1.000000	0.026293
W-16	304.80	17	2	٠,	0.1524	•	30.48	70.711	1	1	0.029862	· e	5.000	•	-0.022		1.000000		1.000000	0.026723
BH-7B	304.80	7	2	.7	0.1524		30.48	70.711	1	1	0.026310	· e	5.000		-0.022		1.000000		1.000000	0.023544
BH-20B	304.80	17	2	.7	0.1524	•	30.48	70.711	1	1	0.020260	· e	5.000		-0.022		1.000000	$\overline{}$	1.000000	0.018130
BH-21B	304.80	1	2	٠.	0.1524	T -	30.48	70.711	1	1	0.023141	· e	5.000	•	-0.022		1.000000		1.000000	0.020708
OS-1	304.80	17	2	٠.	0.1524	·	30.48	70,711	1	1	0.039560	·e	5.000		-0.022		1.000000		1.000000	0.035401
OS-2	304.80	7	2	ķ	0.1524	Ŀ	30.48	70.711	1	1	0.112344	·e	5.000	<u>. </u>	-0.022	\equiv	1.000000	_	1.000000	0.100533
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Land	i Use:	Inc	tustr	dal/Commen	cial (Chemical:		_	Ethylbenze	ene	ı	ncid	ent #:	951	012	2		-	
ROUNDY	VATER R-20	B MC	ODE	LING															
	Groundwate concentration		R	t-16: a _s = 0. X (cm)	10 · X	R-1	7; c	1, = (a,/3	R-18	3: a	, = a	4 / 20 a _z	X (cm)	•Te	erm '	I* =	[X /(2 · a _k)]	Term 1
MW-5	2.54	0.1	1	381	38.1	38.1	1	3	12.7	38.1	1	20		381	7	2	١.	38.1	5
	0	1	1				Т	Ť			⇈	T			m	✝	\vdash		
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Sample Location					•1	Геm	n 2" = {1 - S	OR	T[1 + (4 · λ ·	α _ν)	/ (U)]]				β	1 = 1	S / (4 · SQ	RT	ı _y · X])	
COCECION							λ		a,		U	"Term 2"	S,				a,		x	β1
MW-5	1	-√	1	+	4	·	0.003	Ŀ	38.1	Ŀ	0.81419	-0.24962		1	4	٠٧		·	381	32.09654
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Sample Location Sample Lo	Land	Use:	Ind	ustr	ial/C	Commercial		Chemica	1:	Ethylbenze	ene	Incident f	# ;		951	012					
S_d a_z X $\beta 2$ $erf(\beta 1)$ $erf(\beta 2)$ C_{bounds} "Term 1" "Term 2" $erf(\beta 1)$ $erf(\beta 2)$				β2	? = \$	Sd / (2 · SQ)	RTĮa	z · X])		742.APPI	ENDIX C:			C(x) = C.	er ça	· e ^{(Term 1 - Te}	µm 1	· erf(β ₁)	٠,	rrf(β ₂)	
		S₄				o,		x	β2	erf(β1)	erf(β2)	Cacaron		"Term 1"		*Term 2*		erf(β1)		erf(β2)	C _(x)
	MW-5_	304.80	1	2	1.1		,	381	5.66	1			· e	5.000000	$\overline{}$	-0.249616	·		•	1.000000	0.729121
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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL & RBCA Input Parameters for Use with Tier 2 Calculations

Α.	Dite mentukst	ıon			
	IEMA Incident i	# (6- or 8-digit):	<u>951012</u>	! . <u>_</u>	IEPA LPC # (10 digit): 10105006
	Site Name:	Parker's Gas &	More		
	Site Address (n	not a <u>P.O. Box):</u>	101 Ea	st O	uter Belt Drive
	City: Claytor	1	County	;	Adams Zip Code: 62324
В.	Tier 2 Calculat	ion Information	1		
	Equations(s) U	sed: <u>S17 S1</u>	8 S19 S20 S	S21	S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
				-	ed Calculations: oup, (618) 533-6740
	Land Use:				al Xylenes SSL Soil Type: Silt Clay Loam
	Groundwater:	X Class I		ss I	
	Mass Limit:	Yes	X No		If Yes, then Specify Acerage: 0.5 1 2 5 10 30
	Results from S	17/S28 used in I	R267 X	Ye	No Specify C _{source} from S17/S28 913.415 mg/L
	Land Use:		Commercial		Chemical: Total Xylenes Incident #: 951012
SS	L Parameters			•	
	Input Value	Input Unit Inp	ut Descript	ion	
	200.0000	mg/L	C _w	-	Target Soil Leachate Concentration
	11.590	m	d	Ē	Mixing Zone Depth
	3.048	m	d,	Ŀ	Aquifer Thickness 10 ft
	-	m	d,	-	Depth of Source (Vertical thickness of contamination
	20	unitless	DF	·	Dilution Factor 1.61121 S-22 Value
	25	уг	ED	-	Exposure duration for the direct ingestion of groundwater
	-	yr	ED		Exposure duration for migration to groundwater Mass-Limit Equation \$28
	250	d/yr	EF	-	Exposure frequency
	30	d/yr	EF	-	Exposure frequency (CW)
_	0.0109	g/g	foc	-	Fractional Organic Carbon
	10.00000	mg/L	GW _{aa}	-	Groundwater remediation objective
_	2.71E-01	· · · ·		-	·
	0.029794872	unitless	<u> </u>	-	Henry's Law Constant Hydraulic Gradient
	0.3	m/m _ m/yr	- 	H	Infiltration Rate
_	0.0			١	
		m/yr	ايبر	Ŀ	Infiltration rate for migration to groundwater Mass-Limit Equation \$28
_	1	L/d	IR _W	_	Daily Water Ingestion Rate
	42.88896	m/yr	K	Ŀ	Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
	4.3382	cm³/g or L/kg	K _a	Ŀ	Soil-Water Partition Coefficient (Non-ionizing organics)
	S19&pH	cm³/g or L/kg	K,	·	Soil-Water Partition Coefficient (Ionizing organics)
Α	φρ C, Table J	cm³/g or L/kg	K,	-	Soil-Water Partition Coefficient (Inorganics)
	3.98E+02	cm³/g or L/kg	K₀c	•	Organic Carbon Partition Coefficient
	13	m/yr	K,	-	Saturated Hydraulic Conductivity
	80.772	m	L	-	Source Length Parallel to Groundwater Flow 265 ft
	0.420	L _{pore} /L _{ecti}	η	-	Total Soil Porosity
	-			H	•
-	0.077	اسا/ليدا	Θа	۲	Air Filled Soil Porosity
	0.343	ليبييا/ليبيا	θw	<u> </u>	Water Filled Soil Porosity
	1.589	kg/L or g/cm ³		Ŀ	Dry Soil Bulk Density
	2,74	g/cm³	ρ,	-	Soll Particle Density
	1	unitless	ρ,,	-	Water Density
	0.054	unitless	1/(2b+3)	•	Exponential In Equation S20
	CA Parameters				
0	.029794872	cm/cm		٠	Hydraulic Gradient
	11.75	cm/d	K	•	Aquifer Hydraulic Conductiv 1.36E-04 cm/sec
_	4,29E+03	cm/yr	K	-	Aquifer Hydraulic Conductiv 1.36E-04 cm/sec
_	304.8	cm	Sa	•	Source Width Perpendicular to Grundwater Flow Direction in Verti 10 ft
	8930.64	cm	S _w	•	Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
	0.81419	cm/d	U	_	Specific Discharge
	0.219	_	w	•	Average Soil Moisture Content
LOC	ation Specific		X	<u> </u>	Distance along the Centerline of the Groundwater Plume Emanating from a Source.
	0.082009	ന്ന് _{#/} ന്ന് _{ജ്മ}	θ,,	-	Volumetric Air Content in Vadose Zone Soils
	0.347991	cm³ _{water} /cm³ _{so}	θ,,,	Ŀ	Volumetric Water Content in Vadose Zone Soils
_	0.43	cm³/cm³ _{pol}	θτ	-	Total Soil Porosity
	1.90E-03	d-1	λ	-	First Order Degradation Contant
	1.589	g/cm³	_ ρ _b	-	Soil Bulk Density
				-	•
	1	g/cm³	P _W		Water Density

Soil-Water Partition Coefficient $S-19 = K_{\infty} \cdot f_{\omega} = 398.00 \cdot 0.0109 = 4.3382$

Water-Filled Porosity $S-20 = \eta \cdot \frac{I^{1(2b+3)}}{K_e} = 0.42007 \cdot \frac{0.3}{13}^{0.054} = 0.3427$

Air-Filled Porosity

S-21 = η - θ = 0.42007 - 0.34272 = 0.07736

Dilution Factor $S-22 = 1 + \frac{K \cdot i \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$

Total Soil Porosity $S-24 = 1 - \frac{\rho_b}{\rho_s} \qquad = 1 - \frac{1.589}{2.74} = 0.42007$

Estimation of Mixing Zone Depth $S-25 = (0.0112 \cdot L^2)^{0.6} + d_a \cdot (1 - \exp{\frac{(-L \cdot 1)}{(K \cdot i \cdot d_a)}}) = (0.0112 \cdot 80.772)^{0.5} + 3.048$ $\cdot (1 - \exp{\frac{(-80.772 \cdot 0.3)}{(42.889 \cdot 0.02979 \cdot 3.048)}}) = 11.590 \text{ m}$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

S-28 = \frac{(C_* \cdot J_{10} \cdot \cdot ED_{10})}{\rho_* \cdot d_*} = \frac{200.0000}{1.589} = mg/kg

Specific Discharge

R-19 = $\frac{K \cdot I}{\Theta_T}$ = $\frac{11.75 \cdot 0.02979}{0.43}$ = 0.81419 cm/d

Volumetric Air Content in Vadose Zone Soils

R-21 = θ_T . $\frac{w \cdot \rho_b}{\rho_w}$ = 0.43 - $\frac{0.22 \cdot 1.589}{1}$ = 0.08201

Volumetric Water Content in Vadose Zone Soils

R-22 = $\frac{w \cdot \rho_b}{\rho_w}$ = $\frac{0.22 \cdot 1.589}{1}$ = 0.34799

Total Soil Porosity

R-23 = $\theta_{ss} + \theta_{ss}$ = 0.08201 + 0.34799 = 0.43

Land Use: Industrial/Commercial Chemical: Total Xytenes Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GWool)

Sample Location	Soil Conc.		v = (soil con at modeling (Equation	point) /		GW _{obj} = (F	R-16: α _μ = 0.	10 · X	R-1	7: a	ı _y = (2,/3	R-18	3: a,	, = a,	,/ 20
LJ	mg/kg			С"		DF	GW _{abj}	L	X (cm)	Œ _x	a _x			ά _γ	a,			a,
W-2	24.1	1	913.415	0.026	[/	20	0.001319	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-6	35.1	1	913.415	0.038	1	20	0.001921	0.1	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
W-7	51.7] /	913.415	0.057	1	20	0.002830	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-8	271	\mathbf{L}	913.415	0.297	1	20	0.014834	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-9	289	1	913.415	0.316	1	20_	0.015820	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-10	41.3	/	913.415	0.045	1	20	0.002261	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W-11	58.1	7	913.415	0.064	1	20	0.003180	0.1	30.48	3.048	3.048	1	3	1.016	3.048	I_{I}	20	0.1524
W-12	66.7	\Box	913.415	0.073	1	20_	0.003651	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-14	155		913.415	0.170	1	20	0.008485	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W- <u>1</u> 6	148	7	913.415	0.162	1	20	0.008101	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
W-17	47.2	[L]	913.415	0.052	1	20	0.002584	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
W-18	61.8	7	913.415	0.068	/	20	0.003383	0.1 ·	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-7B	_ 142	17	913.415	0.155	1	20	0.007773	0.1 ·	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
BH-16A	37.2	II	913.415	0.041	1	20	0.002036	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
_BH-16B	99.1	17	913.415	0.108	1	20	0.005425	0.1	30.48	3.048	3.048	7	3	1.016	3.048	7	20	0.1524
BH-16C	65.9		913.415	0.072	1	20	0.003607	0.1	30.48	3.048	3.048	7	3	1.016	3.048	1	20	0.1524
BH-20B	116		913.415	0.127	1	20	0.006350	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-20C	35.2	7	913.415	0.039	1	20	0.001927	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-21A	80.8	7	913.415	0.088	1	20	0.004423	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-21B	124	[7]	913.415	0.136	1.7	20	0.006788	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
BH-23B	6.73	17	913.415	0.007	1	20	0.000368	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
BH-3C	41.4	17	913.415	0.045	7	20	0.002266	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-10C	20.1	171	913.415	0.022	1	20	0.001100	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
BH-14B	23.4	\Box	913,415	0.026	7	20	0.001281	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-26B	15.9	17	913.415	0.017	1	20	0.000870	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-27A	16.6	17	913.415	0.018	7	20	0.000909	0.1	30.48	3.048	3.048	1	3	1.016	3.048	7	20	0.1524
BH-36	34.1	\Box	913.415	0.037	1	20	0.001867	0.1	30.48	3.048	3.048	1	3	1.016	3.048	1	20	0.1524
																Γ		

Sample Location	"Term 1" = $[X /(2 \cdot ax)]$								"Term 2" = $\{1 - SQRT[1 + (4 \cdot \lambda \cdot \alpha_x) / (U)]\}$											$\beta 1 = S_w / (4 \cdot SQRT[\alpha_y \cdot X])$							
	X (cm)				a _x	"Term 1"							λ		α_{x}		U	"Term 2"	S.				_a,		x	β1	
W-2	30.48	17	2		3.048	5	1	- v	1	+	4	·	0.0019	\Box	3.048	·	0.81419	-0.01413	8930.64	1	4	ķ	1.016	•	30.48	401.2068	
W-6	_30.48	I^{T}	2	•	3.048	5	1	- v	1	+	4	\Box	0.0019	\cdot	3.048	•	0.81419	-0.01413	8930.64	7	4	ķ	1.016	·	30.48	401.2068	
W-7	30.48	17	2		3.048	5	1	- v	1	+	4	Ι-	0.0019	·	3.048		0.81419	-0.01413	8930.64	7	4	ķ	1.016		30.48	401.2068	
W-8	30.48	7	2	•	3.048	5	1	- v	1	+	4		0.0019		3.048		0.81419	-0.01413	8930.64	1	4	ķ	1.016	·	30.48	401.2068	
W-9	30.48	1/	2	$\overline{\cdot}$	3.048	5	_1	٠,	1	+	4		0.0019	•	3.048		0.81419	-0.01413	8930.64	7	4	ķ	1.016	•	30.48	401.2068	
W-10	30.48	7	2		3.048	5	1	٠,	1	+	4	T -	0.0019	·	3.048		0.81419	-0.01413	8930.64	II	4	٠,	1.016	·	30.48	401.2068	
W-11	30.48	17	2	•	3.048	5	1	- v	1	+	4	1	0.0019	$\overline{}$	3.048	•	0.81419	-0.01413	8930.64	7	4	4	1.016	$\overline{}$	30.48	401.2068	
W-12	30.48	17	2	$\overline{\cdot}$	3.048	5	1	- v	1	+	4		0.0019	$\overline{}$	3.048	٠,	0.81419	-0.01413	8930.64	7	4	1	1.016	•	30.48	401.2068	
W-14	30.48	17	2	-1	3.048	5	1	ĪΠ	1	+	4	Γ-	0.0019	$\overline{}$	3.048		0.81419	-0.01413	8930.64	7.	4	.1	1.016	$\overline{}$	30.48	401.2068	
W-16	30.48	17	2	•	3.048	5	1	- 1	1	+	4	1	0.0019	lacksquare	3.048	·	0.81419	-0.01413	8930.64	7	4	-1	1.016	•	30.48	401.2068	
W-17	30.48	17	2	•	3.048	5	1	- 1	1	+	4	Γ	0.0019		3.048	•	0.81419	-0.01413	8930.64	7	4	.1	1.016	•	30.48	401.2068	
W-18	30.48	7	2	$\overline{\cdot}$	3.048	5	1	- 1	1	+	4	Ŀ	0.0019	•	3.048	•	0.81419	-0.01413	8930.64	7	4	ķ	_1.016_	•	30.48	401.2068	
BH-7B	30.48	7	2		3.048	5	1	- 1	1	+	4	·	0.0019	•	3.048		0.81419	-0.01413	8930.64	7	4	ż	1.016	-	30.48	401.2068	
BH-16A	30.48	7	2	⋾	3.048	5	1	- 1	1	+	4	Г	0.0019	$\overline{}$	3.048		0.81419	-0.01413	8930.64	7	4	٨.	1.016	- 1	30.48	401.2068	
BH-16B	30.48	17	2	⋾	3.048	5	1	- 1	1	+	4	Ι.	0.0019		3.048		0.81419	-0.01413	8930.64	7	4	14	1.016	$\overline{}$	30.48	401.2068	
BH-16C	30.48	17	2	⋾	3.048	5	1	1.1	1	+	4	1	0.0019	Г- I	3.048	ŀ	0.81419	-0.01413	8930.64	7	4	.1	1.016		30.48	401.2068	
BH-20B	30.48	17	2	•	3.048	5	1	- 1	1	+	4	Π.	0.0019	Ι.	3.048		0.81419	-0.01413	8930.64	7	4	-1	1.016	- [30.48	401.2068	
BH-20C	30.48	17	21	╗	3.048	5	1	- 1	1	+	4	١.	0.0019	$\overline{}$	3.048		0.81419	-0.01413	8930.64	7	4	·V	1.016	-	30.48	401.2068	
BH-21A	30.48	17	2	- 1	3.048	5	1	- 1	1	+	4	1	0.0019		3.048	·	0.81419	-0.01413	8930.64	7	4	٠.٧	1.016	•	30.48	401.2068	
BH-21B	30.48	7	2	$\overline{\cdot}$	3.048	5	1	- 1	1	+	4	Τ.	0.0019	•	3.048	·	0.81419	-0.01413	8930.64	7	4	.4	1.016	\cdot	30.48	401.2068	
BH-23B	30.48	7	2		3.048	5	1	- 1	1	+	4		0.0019		3.048	•	0.81419	-0.01413	8930.64	7	4	٨.	1.016		30.48	401.2068	
BH-3C	30.48	17	2	$\overline{\cdot}$	3.048	5	1	- 1	1	+	4	·	0.0019	·	3.048		0.81419	-0.01413	8930.64	7	4	٠٧	1.016	•	30.48	401.2068	
BH-10C	30.48	17	2	-1	3.048	5	1	- 7	1	+	4	Ī -	0.0019	1	3.048		0.81419	-0.01413	8930.64	7	4	٠V	1.016		30.48	401.2068	
BH-14B	30.48	171	2	•	3.048	5	1	- √	1	+	4		0.0019	$\overline{}$	3.048		0.81419	-0.01413	8930.64	1	4		1.016	•	30.48	401.2068	
BH-26B	30.48	17	2	-1	3.048	5	1	- 1	1	1	4	Г	0.0019	$\overline{}$	3.048	$\overline{}$	0.81419	-0.01413	8930.64	17	4	-√	1.016	$\overline{}$	30.48	401.2068	
BH-27A	30.48	17	2	- 1	3.048	5	1	- 1	1	+	4	Γ	0.0019	·	3.048		0.81419	-0.01413	8930.64	7	4	-7	1.016	\Box	30.48	401.2068	
BH-36	30.48	17	2	- 1	3.048	5	1	- 7	1	1	4	┍	0.0019		3.048	·	0.81419	-0.01413	8930.64	7	4	.1	1.016	$\overline{}$	30.48	401,2068	

Land	Use:	_Inc	<u>dusti</u>	<u>rial/(</u>	Commercial		Chemica	t:	Total Xyler	nes	Incident	#:		951	012					
Sample Location			ß	2 = 5	Sd / (2 · SQ)	रगृः	ız · X])		erf: S 742.APPI Tabl	ENDIX C:			C(x) = C = 0	PC0	. e ^{(Term 1} ·T	em 2) · erf(β ₁)	٠,	erf(β ₂)	
	Sa				α_z		x	β2	erf(β1)	erf(β2)	Csource		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C(x)
W-2	304.80	1	2	/	0.1524		30.48	70.711	1	1	0.001319	· e	5.000	,	-0.014	•	1.000000	•	1.000000	0.001229
W-6	304.80	7	2	.1	0.1524		30.48	70.711	1	1	0.001921	· 0	5.000	٠,	-0.014	•	_1.000000	٠	1.000000	0.001790
W-7	304.80	17	2	.1	0.1524		30.48	70.711	1	1	0.002830	- ө	5.000		-0.014	-	1.000000	٠	1.000000	0.002637
W-8	304.80	7	2	-1	0.1524		30.48	70.711	1	1	0.014834	·e	5.000	٠	-0.014	•	1.000000		1.000000	0.013823
W-9	304.80	17	2	-1	0.1524	·	30.48	70.711	1	1	0.015820	·e	5.000	-	-0.014		1.000000	ŀ	1.000000	0.014741
W-10	304.80	17	2	٠.٧	0.1524		30.48	70,711	1	1	0.002261	• е	5.000	٠	-0.014	,	1.000000	ŀ	1.000000	0.002107
W-11	304.80	7	2	-√	0.1524	ī	30.48	70.711	1	1	0.003180	· e	5.000		-0.014	١,	1.000000	1	1.000000	0.002963
W-12	304.80	17	2	-1	0.1524	·	30.48	70.711	1	1	0.003651	· e	5.000		-0.014		1.000000		1.000000	0.003402
W-14	304.80	17	2	.1	0.1524	-	30.48	70.711	1	1	0.008485	• ө	5.000		-0.014		1.000000		1.000000	0.007906
W-16	304.80	7	2	٠.٧	0.1524		30.48	70.711	1	1	0.008101	. 0	5.000		-0.014	•	1.000000		1.000000	0.007549
W-17	304.80	7	2	٠.٨	0.1524	•	30.48	70.711	1	1	0.002584	·е	5.000	•	-0.014	,	1.000000		1.000000	0.002408
W-18	304.80	7	2	-1	0.1524		30.48	70.711	1	1	0.003383	·е	5.000		-0.014	٠	1.000000		1.000000	0.003152
BH-7B	304.80	17	2	_√	0.1524	ļ -	30.48	70.711	1	1	0.007773	• ө	5.000	•	-0.014	١,	1.000000		1.000000	0.007243
BH-16A	304.80	1	2	-√	0.1524		30.48	70.711	1	1	0.002036	·e	5,000	•	-0.014	٠	1.000000		1.000000	0.001897
BH-16B	304.80	7	2	· \	0.1524		30.48	70.711	_1	1	0.005425	- 0	5.000	٠	-0.014	٠	1.000000	\Box	1.000000	0.005055
BH-16C	304.80	17	2	-1	0.1524		30.48	70.711	1	1	0.003607	· e	5.000	$\overline{\cdot}$	-0.014	٠	1.000000		1.000000	0.003361
BH-20B	304.80	7	2	/	0.1524		30.48	70.711	1	1	0.006350	· e	5.000	٠	-0.014	٠	1.000000		1.000000	0.005917
BH-20C	_304.80	1	2	/	0.1524	•	30.48	70.711	1	1	0.001927	· ө	5.000		-0.014	٠	1.000000		1.000000	0.001795
BH-21A	304.80	IJ	2	1	0.1524	,	30.48	70.711	1	1	0.004423	· e	5.000		-0.014	,	1.000000		1.000000	0.004121
BH-21B	304.80	17	2		0.1524		30.48	70.711	1	1	0.006788	۰е	5.000	•	-0.014	Ŀ	1.000000		1.000000	0.006325
BH-23B	304.80	7	2	1.4	0.1524	·	30.48	70.711	1	1	0.000368	·е	5.000	٠	-0.014	,	1.000000	Ŀ	1.000000	0.000343
BH-3C	304.80	$\prod I$	2	-√	0.1524	Ŀ	30.48	70.711	1	1	0.002266	· e	5.000		-0.014		1.0000000	Ŀ	1.000000	0.002112
BH-10C	304.80	1	2	.1	0.1524	Ŀ	30.48	70.711	1	1	0.001100	·е	5.000		-0.014		1.000000	·	1.000000	0.001025
BH-14B	304.80	7	2	ķ	0.1524	·	30.48_	70.711	1	1	0.001281	·е	5.000		-0.014		1.000000	Ŀ	1.000000	0.001194
BH-26B	304.80	1	2	.1	0.1524	Ŀ	30.48	70.711	1	1	0.000870	· е	5.000		-0.014		1.000000		1.000000	0.000811
BH-27A	304.80	17	2		0.1524		30.48	70.711	1	1	0.000909	·e	5.000		-0.014		1.000000	,	1.000000	0.000847
BH-36	304.80	7	2	.1	0.1524		30.48	70.711	1	1	0.001867	·е	5.000	,	-0.014	Ŀ	1.000000		1.000000	0.001739
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Land Use:	Industrial/Commercial	Chemical:	Total Xylenes	Incident #:	951012
Modeling Soil C	Contamination to Groun	dwater Table			
Target Soil Leachs	ite Concentration (Solve S-1	8 for GW _{obi})			
S-18 = GW _{obj}	= <u>C.</u>				

Sample Location	Soil Conc.		v = (soil con at modeling (Equation	point) /		GW _{obj} = (L/DF		R	≀-16: α _π = 0.	10 · X	R-1	7: c	, = 0	1,/3	R-18	3: a	, = a,	, / 20
	mg/kg			C _w		DF	GW _{abj}	L		X (cm)	a,	a,			αy	α,			a,
OS-1	235	1	913.415	_ 0.257	1	20	0.012864	0.1	٠	609.6	60.96	60.96	1	3	20.32	60.96	1	20	3.048
OS-2	653	1	913.415	0.715	ΓI	20	0.035745	0.1	1	1219.2	121.92	121.92	1	3	40.64	121.92	7	20	6.096
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Sample Location		*Te	rm 1	٠=	[X /(2 · ax))						Tem	n 2" = {1 - S	QR	Τ[1 + (4 · λ ·	α,)	/ (U)]}				F	31 =	S _w /(4 SQ	RΤĮ	z _γ ⋅ X])	
	X (cm)				α×	"Term 1"							λ		α _x		U	"Term 2"	S _w				α_{ν}		x	β1
OS-1	609.6	7	2		60.96	5	1	- √	1	+	4		0.0019	٠	60.96		0.81419	-0.25261	8930.64	1	4	.√		T -	609.6	20.06034
OS-2	1219.2	7	2		121.92	5	1	- 1	1	+	4	·	0.0019	·	121.92	$\overline{\cdot}$	0.81419	-0.46221	8930.64	7	4	1		1	1219.2	10.03017
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Land	Use:	Ind	lustr	ial/C	Commercial		Chemica	l:	Total Xyler	nes	Incident #	¢;		951	012					
Sample Location			β	2 = 5	Sd / (2 · \$QI	₹TĮa	z·X])			ection ENDIX C: le G			C(x) = C***	rea	. g ^{(Term 1 · T}	erm ?	o erf(β ₁)	٠,	arf(β ₂)	·
	S₀				a _z		x	β2	erf(β1)	erf(β2)	Cleaner		"Term 1"		"Term 2"		erf(β1)		erf(β2)	C _(*)
OS-1	304.80	1	2	4	3.048	٠.	609.6	3.536	1	0.999999	0.012864	. 6	5.000		-0.253		1.000000	•	0.999999	0.003638
OS-2	304.80	1	2	٧.	6.096	$[\cdot]$	1219.2	1.768	1	0.987581	0.035745	. 0	5.000	-	-0.462		1.000000	Ŀ		0.003500
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Use:	_ind	ustr	ial/Commen	cial C	Chemical:		_	Total Xyle	nes	t	ncid	ent #:	951	1012	2		•	
ATER R-2	MC	DE	LING															
		R	:-16: a _x = 0. X (cm)	10 · Χ α _κ	R-1'	7: c	ı _v = 0			3: a ,	, = a		X (cm)	ਾ€	m '	1 ° =		 "Term 1
15.2	0.1		182.88	18.288	18.288	1	3			7	20		182.88	17	2	T -		5
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	Groundwate concentration mg/L 15.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATER R-26 MC Groundwate concentratic mg/L 15.2 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATER R-26 MODE R Groundwate concentratio mg/L 15.2 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R-16: q _x = 0. Groundwate concentratic mg/L	R-16: Q _x = 0.10 · X Groundwate concentratic mg/L	ATER R-26 MODELING R-15: a _x = 0.10 · X R-1 Groundwate concentratic mg/L X (cm) a _x a _x a _x 15.2 0.1 · 182.88 18.288 18.288 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R-16: a _x = 0.10 · X R-17: concentration mg/L X (cm) a _x a _x a _x 15.288 18.288 18.288 18.288 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R-16: a _x = 0.10 · X	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x / 3 Broundwate concentration mg/L X (cm) a _x a _x a _y 15.2 0.1 · 182.88 18.288 18.288 / 3 6.096 0 0 0 0 0 0 0 0 0 0 0 0 0	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x / 3 R-18 Groundwate concentration mg/L X (cm) a _x a _x a _y a _y a _y a _y a _x a _y	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x / 3 R-18: a _y	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x /3 R-18: a _z = a _z = a R-18: a _z = a R-18: a _z = a R-18: a _z = a R-18: a	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x / 3 R-18: a _z = a _x / 20 R-18: a _z =	ATTER R-26 MODELING R-16: \(a_z = 0.10 \cdot \text{X} \) R-17: \(a_y = a_z / 3 \) R-18: \(a_z = a_z / 20 \)	ATTER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x /3 R-18: a _z = a _x /20 Termodulate concentrated mg/L X (cm) a _x a _x a _x a _x a _x X (cm) 15.2 0.1 182.88 18.288 18.288 / 3 6.096 18.288 / 20 0.9144 182.88 / 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATTER R-26 MODELING R-16:	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x /3 R-18: a _z = a _x /20 "Term 1° = 2 concentration mg/L X (cm) a _x a _x a _x a _y a _x	ATER R-26 MODELING R-16: a _x = 0.10 · X R-17: a _y = a _x /3 R-18: a _z = a _x /20 *Term 1° = [X/(2 · a _x)] a _x a _x a _x A

Sample Location					•	Term	12" = {1 - S	OR"	Τ[1 + (4 · λ ·	a _x)	/ (U)]}				β	1 = :	S _w / (4 · SQ	RT[o	l _y (X])	
LUCALION							λ		α_{x}		U	"Term 2".	S,				a,		×	β1
MW-5	1	- 4	1	+	4	Ŀ	0.0019		18.288	Ŀ	0.81419	-0.08199	8930.64	J	4	-√			182.88	66.8678
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APPENDIX B
Laboratory Reports, Chain of Custody Form & Laboratory Certification



http://www.teklabinc.com/

WorkOrder: 13080810

August 21, 2013

Marvin Johnson Chase Environmental Group P.O. Drawer AB Centralia, IL 62801

TEL: (618) 533-6740 FAX: (618) 533-6741

RE: Parkers/F0908004

Dear Marvin Johnson:

TEKLAB, INC received 14 samples on 8/15/2013 3:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling

Project Manager

(618)344-1004 ex 41

mdarling@teklabinc.com

Marin L. Darling II



Definitions

http://www.teklabinc.com/

Client: Chase Environmental Group Work Order: 13080810

Client Project: Parkers/F0908004 Report Date: 21-Aug-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
 - MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- **NELAP NELAP Accredited**
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- # Unknown hydrocarbon
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside recovery limits

- B Analyte detected in associated Method Blank
- H Holding times exceeded
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Cooler Receipt Temp: 4.8 °C

		L	ocations ar	ıd Accr	editations		
	Collinsville	Springfield		Kansa	as City	Co	dlinsville Air
Address	5445 Horseshoe Lake Road	3920 Pintail Dr		8421 N	Vieman Road	544	45 Horseshoe Lake Road
	Collinsville, IL 62234-7425	Springfield, IL 627	711 -9 415	Lenexa	ı, KS 66214	Co	llinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004		(913) 5	541-1998	(61	8) 344-1004
Fax	(618) 344-1005	(217) 698-1005		(913) 5	541-1998	(61	8) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@te	klabinc.com	dthom	pson@teklabinc.c	om EH	lurley@teklabinc.com
	State	Dept	Cert	#	NELAP	Exp Date	Lab
	Illinois	IEPA	10022	6	NELAP	1/31/2014	Collinsville
	Kansas	KDHE	E-1037	74	NELAP	1/31/2014	Collinsville
	Louisiana	LDEQ	16649	3	NELAP	6/30/2014	Collinsville
	Louisiana	LDEQ	16657	8	NELAP	6/30/2014	Springfield
	Texas	TCEQ	T10470451	5-12-1	NELAP	7/31/2014	Collinsville
	Arkansas	ADEQ	88-096	66		3/14/2014	Collinsville
	Illinois	IDPH	1758	4		5/31/2015	Collinsville
	Kentucky	UST	0073	i		4/5/2014	Collinsville
	Missouri	MDNR	00930)		4/13/2013	Collinsville

9978

ODEQ

Oklahoma

Collinsville

8/31/2014



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-001

Client Sample ID: OS-1 @ 3-4 ft

Matrix: SOLID	Collection Date: 08/13/2013	8:4

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		21.4	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE OF	RGANIC COM	POUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Fluorene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 12:01	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Naphthalene	NELAP	0.004		0.1	mg/Kg-dry	1	08/19/2013 12:01	91079
Phenanthrene	NELAP	0.004		0.014	mg/Kg-dry	1	08/19/2013 12:01	91079
Pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 12:01	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		58.3	%REC	1	08/19/2013 12:01	91079
Surr: Nitrobenzene-d5		26.3-87.6		63.8	%REC	1	08/19/2013 12:01	91079
Surr: p-Terphenyl-d14		51-107		88.4	%REC	1	08/19/2013 12:01	91079
SW-846 5035, 8260B, VOLAT	ILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NELAP	200		18100	μ g/ Kg-dry	100	08/19/2013 22:30	91132
Ethylbenzene	NELAP	20000		41200	μg/Kg-dry	2000	08/20/2013 11:36	91136
Methyl tert-butyl ether	NELAP	399		ND	μg/Kg-dry	100	08/19/2013 22:30	91132
Toluene	NELAP	20000		160000	μg/Kg-dry	2000	08/20/2013 11:36	91136
Xylenes, Totał	NELAP	20000		235000	μg/Kg-dry	2000	08/20/2013 11:36	91136
Surr: 1,2-Dichloroethane-d4		72.2-131		85.1	%REC	100	08/19/2013 22:30	91132
Surr: 4-Bromofluorobenzene		82.1-116		96.6	%REC	100	08/19/2013 22:30	91132
Surr: Dibromofluoromethane		77.7-120		89.2	%REC	100	08/19/2013 22:30	91132
Surr: Toluene-d8		86-116		107.5	%REC	100	08/19/2013 22:30	91132
Elevated reporting limit due to high	levels of target and/or	non-target ana	lytes.					



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-002

Client Sample ID: OS-2 @ 3-4 ft

Matrix: SOLID

Matrix. SOLID				Concent	11 Date: 00/	15/2015	0.57	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A,	ASTM D2974						•	
Percent Moisture		0.1		19.2	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS	, SEMI-VOLATILE O	RGANIC COM	/POUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Naphthalene	NELAP	0.004	SR	0.162	mg/Kg-dry	1	08/19/2013 12:32	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		50.6	%REC	1	08/19/2013 12:32	91079
Surr: Nitrobenzene-d5		26.3-87.6		55.1	%REC	1	08/19/2013 12:32	91079
Surr: p-Terphenyl-d14		51-107		80.2	%REC	1	08/19/2013 12:32	91079
RPD, MS and MSD recovery did	not recover within contro	ol limits due to s	sample con	nposition.		_		
SW-846 5035, 8260B, VOLA	TILE ORGANIC COM	IPOUNDS BY	GC/MS					
Benzene	NELAP	521		37900	μg/Kg-dry	250	08/20/2013 12:02	91136
Ethylbenzene	NELAP	104000		117000	μg/Kg-dry	10000	08/20/2013 17:03	91168
Methyl tert-butyl ether	NELAP	1040		ND	µg/Kg-dry	250	08/20/2013 12:02	91136
Toluene	NELAP	104000		367000	μg/Kg-dry	10000	08/20/2013 17:03	91168
Xylenes, Total	NELAP	104000		653000	μg/Kg-dry	10000	08/20/2013 17:03	91168
Surr: 1,2-Dichloroethane-d4		72.2-131		107.6	%REC	250	08/20/2013 12:02	91136
Surr: 4-Bromofluorobenzene		82.1-116		103.9	%REC	250	08/20/2013 12:02	91136
Surr: Dibromofluoromethane		77.7-120		94.2	%REC	250	08/20/2013 12:02	91136
Surr: Toluene-d8		86-116		105.8	%REC	250	08/20/2013 12:02	91136
Elevated reporting limit due to hig	h levels of target and/or	non-target ana	lytes.					



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

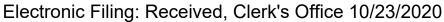
Report Date: 21-Aug-13

Lab ID: 13080810-003

Client Sample ID: OS-3 @ 4-5 ft

Matrix: SO∐D

Matrix: SOLD	Ман х. 30ЦD Concensus Date: 00/13/2013 6.51							
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A,	ASTM D2974	· -						
Percent Moisture		0.1		19.1	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS	, SEMI-VOLATILE O	RGANIC COM	(POUND	S BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(b)fluoranthene	NELAP	0.004	J	0.003	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Naphthalene	NELAP	0.004		0.007	mg/Kg-dry	1	08/19/2013 14:08	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		55.8	%REC	1	08/19/2013 14:08	91079
Surr: Nitrobenzene-d5		26.3-87.6		64	%REC	1	08/19/2013 14:08	91079
Surr: p-Terphenyl-d14		51-107		81.9	%REC	1	08/19/2013 14:08	91079
SW-846 5035, 8260B, VOLA	TILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Toluene	NELAP	4.3	J	1.6	μg/Kg-dry	1	08/16/2013 13:28	91091
Xylenes, Total	NELAP	4.3	J	1.3	μg/Kg-dry	1	08/16/2013 13:28	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		107.2	%REC	1	08/16/2013 13:28	91091
Surr: 4-Bromofluorobenzene		82.1-116		94.2	%REC	1	08/16/2013 13:28	91091
Surr: Dibromofluoromethane		77.7-120		99.6	%REC	1	08/16/2013 13:28	91091
Surr: Toluene-d8		86-116		103.4	%REC	1	08/16/2013 13:28	91091





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

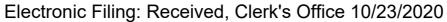
Report Date: 21-Aug-13

Lab ID: 13080810-004

Client Sample ID: OS-4 @ 3-4 ft

Matrix: SO∐D

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		17.6	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE OI	RGANIC CON	/POUNDS	BY GC/MS				
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(a)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(b)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(g,h,i)perylene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	08/19/2013 14:40	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Pyrene	NELAP	0.004		0.01	mg/Kg-dry	1	08/19/2013 14:40	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		58.7	%REC	1	08/19/2013 14:40	91079
Surr: Nitrobenzene-d5		26.3-87.6		65	%REC	1	08/19/2013 14:40	91079
Surr: p-Terphenyl-d14		51-107		88.1	%REC	1	08/19/2013 14:40	91079
SW-846 5035, 8260B, VOLAT	ILE ORGANIC COM	POUNDS BY	GC/MS			•		
Benzene	NELAP	0.8		ND	μg/Kg-dry	1	08/16/2013 13:54	91091
Ethylbenzene	NELAP	4.1		ND	μg/Kg-dry	1	08/16/2013 13:54	91091
Methyl tert-butyl ether	NELAP	1.6		ND	μg/Kg-dry	1	08/16/2013 13:54	91091
Toluene	NELAP	4.1	J	1.1	μg/Kg-dry	1	08/16/2013 13:54	91091
Xylenes, Total	NELAP	4.1		ND	μg/Kg-dry	1	08/16/2013 13:54	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		103.8	%REC	1	08/16/2013 13:54	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.2	%REC	1	08/16/2013 13:54	91091
Surr: Dibromofluoromethane		77.7-120		97.5	%REC	1	08/16/2013 13:54	91091
Surr: Toluene-d8		86-116		102.5	%REC	1	08/16/2013 13:54	91091





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-005

Client Sample ID: OS-5 @ 4-5 ft

Matrix: SOLID

Matrix Social		····			= = = · · · · · · · · · · · · · · · · ·	,	0.12	·
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974					_		
Percent Moisture		0.1		19.3	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	IPOUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		45.2	%REC	1	08/19/2013 15:12	91079
Surr: Nitrobenzene-d5		26.3-87.6		56.8	%REC	1	08/19/2013 15:12	91079
Surr: p-Terphenyl-d14		51-107		82	%REC	1	08/19/2013 15:12	91079
SW-846 5035, 8260B, VOLAT	LE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	0.9		ND	μg/Kg-dry	1	08/16/2013 14:20	91091
Ethylbenzene	NELAP	4.7		ND	µg/Kg-dry	1	08/16/2013 14:20	91091
Methyl tert-butyl ether	NELAP	1.9	J	1.9	µg/Kg-dry	1	08/16/2013 14:20	91091
Toluene	NELAP	4.7		ND	μg/Kg-dry	1	08/16/2013 14:20	91091
Xylenes, Total	NELAP	4.7		ND	μg/Kg-dry	1	08/16/2013 14:20	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		100.2	%REC	1	08/16/2013 14:20	91091
Surr: 4-Bromofluorobenzene		82.1-116		93.2	%REC	1	08/16/2013 14:20	91091
Surr: Dibromofluoromethane		77.7-120		94.2	%REC	1	08/16/2013 14:20	91091
Surr: Toluene-d8		86-116		103.7	%REC	1	08/16/2013 14:20	91091



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

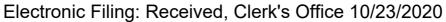
Report Date: 21-Aug-13

Lab ID: 13080810-006

Client Sample ID: OS-6 @ 4-5 ft

Matrix: SO∐D

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		20.8	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CON	IPOUND:	S BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Indeno(1,2,3-cd)ругеле	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	29.3	%REC	1	08/19/2013 15:45	91079
Surr: Nitrobenzene-d5		26.3-87.6		47.9	%REC	1	08/19/2013 15:45	91079
Surr: p-Terphenyl-d14		51-107		84.5	%REC	1	08/19/2013 15:45	91079
Surrogate recovery is outside QC	limits due to matrix inte	rference.						
SW-846 5035, 8260B, VOLAT	ILE ORGANIC COM	IPOUNDS BY	GC/MS					
Benzene	NELAP	8.0		ND	μg/Kg-dry	1	08/16/2013 14:46	91091
Ethylbenzene	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Methyl tert-butyl ether	NELAP	1.6		ND	μg/Kg-dry	1	08/16/2013 14:46	91091
Toluene	NELAP	4		ND	μg/Kg-dry	1	08/16/2013 14:46	91091
Xylenes, Total	NELAP	4		ND	μg/Kg-dry	1	08/16/2013 14:46	91091
Surr: 1,2-Dichtoroethane-d4		72.2-131		108.5	%REC	1	08/16/2013 14:46	91091
Surr: 4-Bromofluorobenzene		82.1-116		97.1	%REC	1	08/16/2013 14:46	91091
Surr: Dibromofluoromethane		77.7-120		96.5	%REC	1	08/16/2013 14:46	91091
Surr: Toluene-d8		86-116		101.1	%REC	1	08/16/2013 14:46	91091





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

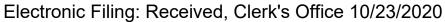
Report Date: 21-Aug-13

Lab ID: 13080810-007

Client Sample ID: OS-7 @ 4-5 ft

Matrix: SOLID

Matrix: SULID				Conecno	n Date: U8/	13/2013	9:12	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A,	ASTM D2974							
Percent Moisture		0.1		20.1	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS	, SEMI-VOLATILE OF	RGANIC CON	IPOUND	S BY GC/MS	3		•	
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	33.3	%REC	1	08/19/2013 16:18	91079
Surr: Nitrobenzene-d5		26.3-87.6		53.5	%REC	1	08/19/2013 16:18	91079
Surr: p-Terphenyi-d14		51-107		87.2	%REC	1	08/19/2013 16:18	91079
Surrogate recovery is outside QC	limits due to matrix inter	ference.					_	
SW-846 5035, 8260B, VOLA	TILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NELAP	8.0		ND	μg/Kg-dry	1	08/16/2013 15:11	91091
Ethylbenzene	NELAP	4.2	•	ND	μg/Kg-dry	1	08/16/2013 15:11	91091
Methyl tert-butyl ether	NELAP	1.7		ND	μg/Kg-dry	1	08/16/2013 15:11	91091
Toluene	NELAP	4.2	J	1.1	μg/Kg-dry	1	08/16/2013 15:11	91091
Xylenes, Total	NELAP	4.2		ND	μg/Kg-dry	1	08/16/2013 15:11	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		108.4	%REC	1	08/16/2013 15:11	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.8	%REC	1	08/16/2013 15:11	91091
Surr: Dibromofluoromethane		77.7-120		96.4	%REC	1	08/16/2013 15:11	91091
Surr: Toluene-d8		86-116		100.4	%REC	1	08/16/2013 15:11	91091





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-008

Client Sample ID: OS-8 @ 4-5 ft

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		18.3	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	/POUNDS	S BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		39.8	%REC	1	08/19/2013 16:49	91079
Surr: Nitrobenzene-d5		26.3-87.6		49.4	%REC	1	08/19/2013 16:49	91079
Surr: p-Terphenyl-d14		51-107		78.1	%REC	1	08/19/2013 16:49	91079
SW-846 5035, 8260B, VOLAT	ILE ORGANIC CON	IPOUNDS BY	GC/MS					
Benzene	NELAP	0.8		ND	μg/Kg-dry	1	08/16/2013 15:37	91091
Ethylbenzene	NELAP	4.2		ND	μg/Kg-dry	1	08/16/2013 15:37	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Toluene	NELAP	4.2		ND	μg/Kg-dry	1	08/16/2013 15:37	91091
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		105.2	%REC	1	08/16/2013 15:37	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.4	%REC	1	08/16/2013 15:37	91091
Surr: Dibromofluoromethane		77.7-120		95.9	%REC	1	08/16/2013 15:37	91091
Surr: Toluene-d8		86-116		102	%REC	1	08/16/2013 15:37	91091



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-009

Client Sample ID: OS-9 @ 4-5 ft

Matrix: SOLID

						-0,-0-0		
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		15.4	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	APOUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	35.3	%REC	1	08/19/2013 17:22	91079
Surr: Nitrobenzene-d5		26.3-87.6		45.9	%REC	1	08/19/2013 17:22	91079
Surr: p-Terphenyl-d14		51-107		81.6	%REC	1	08/19/2013 17:22	91079
Surrogate recovery is outside QC i	limits due to matrix inte	erference.						
SW-846 5035, 8260B, VOLAT	ILE ORGANIC CON	IPOUNDS BY	GC/MS					
Benzene	NELAP	8.0		ND	μg/Kg-dry	1	08/16/2013 16:03	91091
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Toluene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		111.1	%REC	1	08/16/2013 16:03	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.9	%REC	1	08/16/2013 16:03	91091
Surr: Dibromofluoromethane		77.7-120		97.7	%REC	1	08/16/2013 16:03	91091
Surr: Toluene-d8		86-116		101.8	%REC	1	08/16/2013 16:03	91091



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

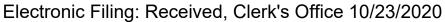
Report Date: 21-Aug-13

Lab ID: 13080810-010

Client Sample ID: OS-10 @ 4-5 ft

Matrix: SOLID

Matrix: SOLID	 -			Concent	n Date. 00/.	15,2015	3.50	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A,	ASTM D2974							
Percent Moisture		0.1		17.5	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS	, SEMI-VOLATILE O	RGANIC COM	/POUNDS	BY GC/MS				-
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Acenaphthylene	NELAP	0.004		ND	rng/Kg-dry	1	08/19/2013 17:54	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	34.2	%REC	1	08/19/2013 17:54	91079
Surr: Nitrobenzene-d5		26.3-87.6		51.6	%REC	1	08/19/2013 17:54	91079
Surr: p-Terphenyl-d14		51-107		82.1	%REC	1	08/19/2013 17:54	91079
Surrogate recovery is outside QC	limits due to matrix inte	rference.						
SW-846 5035, 8260B, VOLA	TILE ORGANIC CON	IPOUNDS BY	GC/MS					
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Methyl tert-butyl ether	NELAP	1.8		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Toluene	NELAP	4.5	J	1.4	μg/Kg-dry	1	08/16/2013 16:29	91091
Xylenes, Total	NELAP	4.5		ND	μg/Kg-dry	1	08/16/2013 16:29	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.6	%REC	1	08/16/2013 16:29	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.8	%REC	1	08/16/2013 16:29	91091
Surr: Dibromofluoromethane		77.7-120		98.1	%REC	1	08/16/2013 16:29	91091
Surr: Toluene-d8		86-116		100.2	%REC	1	08/16/2013 16:29	91091





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Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

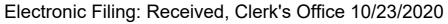
Report Date: 21-Aug-13

Lab ID: 13080810-011

Client Sample ID: OS-11 @ 4-5 ft

Matrix: SOLID

Matrix: SOLID				Compens	d Date: Oo,	15,2015		
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974		•	-				
Percent Moisture	•	0.1		17.3	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	/POUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		42.5	%REC	1	08/19/2013 18:26	91079
Surr: Nitrobenzene-d5		26.3-87.6		52.1	%REC	1	08/19/2013 18:26	91079
Surr: p-Terphenyl-d14		51-107		82.1	%REC	1	08/19/2013 18:26	91079
SW-846 5035, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	0.8		ND	μg/Kg-dry	1	08/16/2013 16:55	91091
Ethylbenzene	NELAP	4		ND	μg/Kg-dry	1	08/16/2013 16:55	91091
Methyl tert-butyl ether	NELAP	1.6		ND	μg/Kg-dry	1	08/16/2013 16:55	91091
Toluene	NELAP	4	J	0.9	μg/Kg-dry	1	08/16/2013 16:55	91091
Xylenes, Total	NELAP	4		ND	μg/Kg-dry	1	08/16/2013 16:55	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.1	%REC	1	08/16/2013 16:55	91091
Surr: 4-Bromofluorobenzene		82.1-116		96.4	%REC	1	08/16/2013 16:55	91091
Surr: Dibromofluoromethane		77.7-120		97.4	%REC	1	08/16/2013 16:55	91091
Surr: Toluene-d8		86-116		102.1	%REC	1	08/16/2013 16:55	91091





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Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

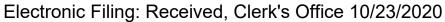
Report Date: 21-Aug-13

Lab ID: 13080810-012

Client Sample ID: OS-12 @ 4-5 ft

Matrix: SOLID

Matrix. SOLID	0 45 4	P.1	0 4		II-ia-			Dotah
Analyses	Certification	KL	Qual	Result	Units	DF	Date Analyzed	рацеп
EPA SW846 3550C, 5035A, A	STM D2974				•	•	001408040 0 47	0400750
Percent Moisture		0.1		15.6	<u> </u>	1	08/16/2013 9:47	R180/56
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O		APOUNDS	S BY GC/MS				
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1 '	08/19/2013 18:59	
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	s	32.8	%REC	1	08/19/2013 18:59	91079
Surr: Nitrobenzene-d5		26.3-87.6		41.2	%REC	1	08/19/2013 18:59	91079
Surr: p-Terphenyl-d14		51-107		78.1	%REC	1	08/19/2013 18:59	91079
Surrogate recovery is outside QC	limits due to matrix inte	erference.						
SW-846 5035, 8260B, VOLAT			GC/MS					
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Ethylbenzene	NELAP	4.1		ND	μg/Kg-dry	1	08/16/2013 17:21	91091
Methyl tert-butyl ether	NELAP	1.6		ND	μg/Kg-dry	1	08/16/2013 17:21	91091
Toluene	NELAP	4.1		ND	μg/Kg-dry	1	08/16/2013 17:21	91091
Xylenes, Total	NELAP	4.1		ND	μg/Kg-dry	1	08/16/2013 17:21	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		104.8	%REC	1	08/16/2013 17:21	91091
Surr: 4-Bromofluorobenzene		82.1-116		94.8	%REC	1	08/16/2013 17:21	91091
Surr: Dibromofluoromethane		77.7-120		95.5	%REC	1	08/16/2013 17:21	91091
Surr: Toluene-d8		86-116		102.6	%REC	1	08/16/2013 17:21	91091





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Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

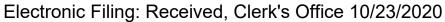
Report Date: 21-Aug-13

Lab ID: 13080810-013

Client Sample ID: OS-13 @ 8-9 ft

Matrix: SOLID

	- 					,		
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		23.4	%	1	08/16/2013 9:47	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	/POUNDS	BY GC/MS	3			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		42.4	%REC	1	08/19/2013 19:31	91079
Surr: Nitrobenzene-d5		26.3-87.6		54.7	%REC	1	08/19/2013 19:31	91079
Surr: p-Terphenyl-d14		51-107		86.8	%REC	1	08/19/2013 19:31	91079
SW-846 5035, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Ethylbenzene	NELAP	4.6		ND	μg/Kg-dry	1	08/16/2013 17:48	91091
Methyl tert-butyl ether	NELAP	1.9		3.1	μg/Kg-dry	1	08/16/2013 17:48	91091
Toluene	NELAP	4.6		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Xylenes, Total	NELAP	4.6		ND	μg/Kg-dry	1	08/16/2013 17:48	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.6	%REC	1	08/16/2013 17:48	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.5	%REC	1	08/16/2013 17:48	91091
Surr: Dibromofluoromethane		77.7-120		98.5	%REC	1	08/16/2013 17:48	91091
Surr: Toluene-d8		86-116		102.1	%REC	1	08/16/2013 17:48	91091





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-014

Client Sample ID: OS-14 @ 4-5 ft

Matrix: SOLID

					-	13/2013	10.20	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, A	STM D2974							
Percent Moisture		0.1		18.8	%	1	08/16/2013 9:47	R180756
SW-846 3550B, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	APOUNDS	BY GC/MS	<u> </u>			
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	35	%REC	1	08/19/2013 20:03	91079
Surr: Nitrobenzene-d5		26.3-87.6		45.6	%REC	1	08/19/2013 20:03	91079
Surr: p-Terphenyl-d14		51-107		80.8	%REC	1	08/19/2013 20:03	91079
Surrogate recovery is outside QC in	limits due to matrix inte	erference.						
SW-846 5035, 8260B, VOLAT	ILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Ethylbenzene	NELAP	4.4		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Methyl tert-butyl ether	NELAP	1.8		ND	μg/Kg-dry	1	08/16/2013 18:14	91091
Toluene	NELAP	4.4	j	0.9	μg/Kg-dry	1	08/16/2013 18:14	91091
Xylenes, Total	NELAP	4.4		ND	μg/Kg-dry	1	08/16/2013 18:14	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		111.4	%REC	1	08/16/2013 18:14	91091
Surr: 4-Bromofluorobenzene		82.1-116		97.5	%REC	1	08/16/2013 18:14	91091
Surr: Dibromofluoromethane		77.7-120		98.1	%REC	1	08/16/2013 18:14	91091
Surr: Toluene-d8		86-116		100.9	%REC	1	08/16/2013 18:14	91091



Receiving Check List

http://www.teklabinc.com/ Work Order: 13080810 Client: Chase Environmental Group Report Date: 21-Aug-13 Client Project: Parkers/F0908004 Carrier: Sean Spinner Received By: EEP Marin L. Darling II mily Pola Reviewed by: Completed by: On: On: 16-Aug-13 16-Aug-13 Marvin L. Darling Emily E. Pohlman Extra pages included Chain of custody Pages to follow: Yes No 🗌 Not Present Temp °C Shipping container/cooler in good condition? Blue Ice Dry Ice Type of thermal preservation? None ice Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes Yes Chain of custody agrees with sample labels? Samples in proper container/bottle? Yes Sample containers intact? Yes ∇ Yes Nο Sufficient sample volume for indicated test? Yes No 🗔 All samples received within holding time? NA 🗹 Field Lab 🗌 Reported field parameters measured: Yes 🗹 No 🗆 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes No 🗆 No TOX containers Yes 🗌 No 🗌 Water - TOX containers have zero headspace? NA 🗹 No 🔲 Yes Water - pH acceptable upon receipt? NA 🐼 Yes No 🗌 NPDES/CWA TCN interferences checked/treated in the field?

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 2 Work Order # 13060810

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Address: City / State / Zip: Contact: Mongon		¹ B F1 6 e: 618				<u> </u>		P		rve	ed ir	187.20 8	ice I Lab	****	Blue □ Fi		□ N E	o ice FOR L			ONL S				
E-Mail: mjohnsone chase		e: <u>(0/9</u>		<u></u>	9/7	<u></u>		•	iomi	ner	its;														
 Are these samples known to be involved in Are these samples known to be hazardous Are there any required reporting limits to be limits in comment section. ☐ Yes 	? □ Yes 🎾 No e met on the requ	•					•	80				(ib, · Pi										
Project Name / Number	1	mple Colli	ector	's Na	ıme			ļ	N	IAT	RIX	T -	١.,	· ·		NDIC	ATE	ANAL	YSI	S RE	QUE	STED			
Parkers / F0908004		1John						_		Water			18/												,
Results Requested Standard 1-2 Day (100% Surcharge)	Billing Instru	_		Туре	of C	7		3		<u>5</u>		ste	1	J.,										,	
☐ Other ☐ 3 Day (50% Surcharge)	The Lus	- 1	UNPRES HNO3	동	֡֡֡֡֡֡֡֞֞֡֡֡֡֞֞֡֓֞֜֞֜֞֡֡֡֡֡֡֡֡֡֡֡֡֡֡֡֡֡	동	NaHSO4	5	Water	Drinking	Soil	Sp. Waste	Į Š	1											7
Lab Use Only Sample Identification	n Date/Time S	Sampled	Z Z	NaOH	된	MeOH	Na	E 0	≯	<u> </u>	Soil	S	6	6				ı							-
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7003 05-7 E4-5	1	8:31					T			7	Π		П												4
-004 05-4 e 3-4	'	8:24				Ш	71	7		Ť	Π		\prod	11							Ī				0
-1005 DS-5 B 4-5		8:12	П	П		П				1		1	\prod	П											23
-300 05-6 B 4-51		9:08	\prod			П		1					П	П											20
707 ps-7 e 4.5		9:12	\prod										\prod	\prod											33
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CHAIN OF CUSTODY

pg. Z of Z Work Order # 13080810

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

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Contact: M Johnson	Phone:					_	0000																
E-Mail:	Fax:			····		-	potobolobko	Co	mmi	ent	S .						Tr.	. J. T					
 Are these samples known to be involved in lift Are these samples known to be hazardous? Are there any required reporting limits to be a limits in comment section. 	☐ Yes DetNo	•	٠.	_		_	ŝ										Cou	rier	ib, I Pic	nc. k L	þ		
Project Name / Number	Sample Co	lecto	r's N	lam	е				MA	۱TR	RIX				INDICA	TE A	NALY	'SIS F	REQU	ESTI	ĒD_		
Parkers / F0908004	MJohn	50-							ater				BE	·									
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Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A.	Site	Identification				
	IEM	A Incident # (6- or 8-digit):	951012		IEPA LPC# (10-digit): 00101500	06
	Site	Name: Parkers Gas and M	flore			
	Site	Address (Not a P.O. Box):	101 East Outer Belt	Dr		
	City:	: Clayton	County:	Adams	ZIP Code: 62324	
	Leak	king UST Technical File				
В.	Sam	ple Collector				
	I ceri	tify that:				
	1	Appropriate sampling equip	ment/methods were	utilized to obtair	representative samples.	My
						(Initial)
	2.	Chain-of-custody procedure	es were followed in th	e field.		(Initial)
	3.	Sample integrity was maint	sissed but seems and seems			(Initial)
	J. (Sample integrity was maint	sined by proper prese	avadon.		(Initial)
	4. /	All samples were properly la	abeled.			my
						(Initial)
C.	Lab	oratory Representativ	e e			
	I cert	tify that: 13080810				
	1. F	Proper chain-of-custody pro	cedures were followe	ed as documente	ed on the chain-of-custody forms	MLOI
					•	(Initial)
	2. \$	Sample integrity was mainta	ained by proper prese	rvation.		MLPIL
	_					(Initial) <i>علاه م</i> وم
	3. <i>A</i>	All samples were properly la	abeled.			(Initial)
	4. (Quality assurance/quality co	ontrol procedures wer	re established ar	nd carried out.	MLOI
	•	, ,				(Initial)
	5. 8	Sample holding times were	not exceeded.			MLPIL
						(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

الدوء مر (Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name Marvin Johnson	Name Marvin L. Darling II
Title Sr PM	Title Project Manager
Company CEG Inc	Company Texiab, Enc.
Address PO Box AB	Address 5445 Horsestie Lake Rd.
City Centralia	CityCollinsuille
State IL	State F C
Zip Code 62801	Zip Code 62234
Phone 618-533-6740	Phone 618-344-1004
Signature 76/	Signature morning of Doubing II
Date 8/17/13	Date 8/21//3



http://www.teklabinc.com/

WorkOrder: 14101048

October 24, 2014

Marvin Johnson Chase Environmental Group P.O. Drawer AB Centralia, IL 62801

TEL: (618) 533-6740 FAX: (618) 533-6741

RE: Parkers/F0908004

Dear Marvin Johnson:

TEKLAB, INC received 23 samples on 10/17/2014 3:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling

Project Manager

(618)344-1004 ex 41

mdarling@teklabinc.com

Marin L. Darling I



Report Contents

http://www.teklabinc.com/

Client: Chase Environmental Group Work Order: 14101048
Client Project: Parkers/F0908004 Report Date: 24-Oct-14

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Receiving Check List	28
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Chase Environmental Group Work Order: 14101048

Client Project: Parkers/F0908004 Report Date: 24-Oct-14

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
 - MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- # Unknown hydrocarbon
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits

- B Analyte detected in associated Method Blank
- H Holding times exceeded
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

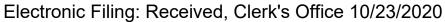
Report Date: 24-Oct-14

Cooler Receipt Temp: 1.2 °C

Locations and Acc	creditations
-------------------	--------------

	Collinsville	Springfield	Kansas City	Collinsville Air
Address	5445 Horseshoe Lake Road	3920 Pintail Dr	8421 Nieman Road	5445 Horseshoe Lake Road
	Collinsville, IL 62234-7425	Springfield, IL 62711-9415	Lenexa, KS 66214	Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	ihrilev@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurlev@teklabinc.com

State	Dept	Cert#	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2015	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2015	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2015	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2015	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2015	Collinsville
Arkansas	ADEQ	88-0966		3/14/2015	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	KDEP	98006		12/31/2014	Collinsville
Kentucky	UST	0073		1/31/2015	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2015	Collinsville





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

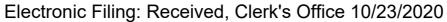
Lab ID: 14101048-001

Client Sample ID: MW01

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:00

MAIN. GROUNDWA	ILK	Contention Date: 10/10/2014 14:00										
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch				
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CON	IPOUNDS	BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246				
Surr: 2-Fluorobiphenyl		34.3-105		75	%REC	1	10/23/2014 9:21	103246				
Surr: 2-Fluorophenol		19.9-55.7		38.9	%REC	1	10/23/2014 9:21	103246				
Surr: Nitrobenzene-d5		36.4-127		58.5	%REC	1	10/23/2014 9:21	103246				
Surr: Phenol-d5		8.95-38.5		25.8	%REC	1	10/23/2014 9:21	103246				
Surr: p-Terphenyl-d14		6.05-133		77.8	%REC	1	10/23/2014 9:21	103246				
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	POUNDS BY	GC/MS	<u>", </u>								
Benzene	NELAP	2		ND	μg/L	1	10/20/2014 23:45	103215				
Ethylbenzene	NELAP	5		ND	μg/L	1	10/20/2014 23:45	103215				
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/20/2014 23:45	103215				
Toluene	NELAP	5		ND	μg/L	1	10/20/2014 23:45	103215				
Xylenes, Total	NELAP	5		ND	µg/L	1	10/20/2014 23:45	103215				
Surr: 1,2-Dichloroethane-d4		74.7-129		101	%REC	1	10/20/2014 23:45	103215				
Surr: 4-Bromofluorobenzene		86-119		100.2	%REC	1	10/20/2014 23:45	103215				
Surr: Dibromofluoromethane		81.7-123		101.2	%REC	1	10/20/2014 23:45	103215				
Surr: Toluene-d8		84.3-114		98.2	%REC	1	10/20/2014 23:45	103215				





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-002

Client Sample ID: MW02

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:50

THE STATE OF COURSE												
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch				
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CO	MPOUNDS	BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246				
Surr: 2-Fluorobiphenyl		34.3-105		79.3	%REC	1	10/23/2014 9:53	103246				
Surr. 2-Fluorophenol		19.9-55.7		43.1	%REC	1	10/23/2014 9:53	103246				
Surr: Nitrobenzene-d5		36.4-127		59.9	%REC	1	10/23/2014 9:53	103246				
Surr: Phenol-d5		8.95-38.5		28	%REC	1	10/23/2014 9:53	103246				
Surr: p-Terphenyl-d14		6.05-133		87.6	%REC	1	10/23/2014 9:53	103246				
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS			_						
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 0:12	103215				
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 0:12	103215				
Methyl tert-butyl ether	NELAP	2		9	μg/L	1	10/21/2014 0:12	103215				
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 0:12	103215				
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 0:12	103215				
Surr: 1,2-Dichloroethane-d4		74.7-129		100.4	%REC	1	10/21/2014 0:12	103215				
Surr. 4-Bromofluorobenzene		86-119		99	%REC	1	10/21/2014 0:12	103215				
Surr: Dibromofluoromethane		81.7-123		101.6	%REC	1	10/21/2014 0:12	103215				
Surr: Toluene-d8		84.3-114		97.5	%REC	1	10/21/2014 0:12	103215				



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

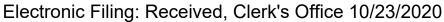
Lab ID: 14101048-003

Client Sample ID: MW03

Matrix: GROUNDWATER

Collection Date: 10/16/2014 15:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch			
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	IPOUND:	S BY GC/MS			·				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Benzo(g,h,i)perytene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Naphthalene	NELAP	0.0001		0.00279	mg/L	1	10/23/2014 10:24	103246			
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246			
Surr: 2-Fluorobiphenyl		34.3-105		81.3	%REC	1	10/23/2014 10:24	103246			
Surr: 2-Fluorophenol		19.9-55.7		44	%REC	1	10/23/2014 10:24	103246			
Surr: Nitrobenzene-d5		36.4-127		81.7	%REC	1	10/23/2014 10:24	103246			
Surr: Phenol-d5		8.95-38.5		30.3	%REC	1	10/23/2014 10:24	103246			
Surr: p-Terphenyl-d14		6.05-133		84.6	%REC	1	10/23/2014 10:24	103246			
SW-846 5030, 8260B, VOLAT	ILE ORGANIC COM	IPOUNDS BY	GC/MS								
Benzene	NELAP	20		342	μg/L	10	10/21/2014 0:39	103215			
Ethylbenzene	NELAP	50	j	14	µg/L	10	10/21/2014 0:39	103215			
Methyl tert-butyl ether	NELAP	20		1800	μg/L	10	10/21/2014 0:39	103215			
Toluene	NELAP	50		ND	μg/L	10	10/21/2014 0:39	103215			
Xylenes, Total	NELAP	50		90.4	μg/L	10	10/21/2014 0:39	103215			
Surr: 1,2-Dichloroethane-d4		74.7-129		102.5	%REC	10	10/21/2014 0:39	103215			
Surr: 4-Bromofluorobenzene		86-119		99.6	%REC	10	10/21/2014 0:39	103215			
Surr: Dibromofluoromethane		81.7-123		104.4	%REC	10	10/21/2014 0:39	103215			
Surr: Toluene-d8		84.3-114		96.4	%REC	10	10/21/2014 0:39	103215			
Elevated reporting limit due to high	levels of target and/or	non-target and	lytes.								





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

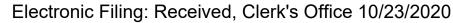
Lab ID: 14101048-004

Client Sample ID: MW04

Matrix: GROUNDWATER

Collection Date: 10/16/2014 15:21

A STATE OF CONTRACT STATE OF THE STATE OF TH											
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch			
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CON	/POUND	S BY GC/MS							
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Вепzо(а)рутепе	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Naphthalene	NELAP	0.0001		0.00346	mg/L	1	10/23/2014 10:56	103246			
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246			
Surr: 2-Fluorobiphenyl		34.3-105		65	%REC	1	10/23/2014 10:56	103246			
Surr: 2-Fluorophenol		19.9-55.7		34.2	%REC	1	10/23/2014 10:56	103246			
Surr: Nitrobenzene-d5		36.4-127		51.4	%REC	1	10/23/2014 10:56	103246			
Surr: Phenol-d5		8.95-38.5		22.4	%REC	1	10/23/2014 10:56	103246			
Surr: p-Terphenyl-d14		6.05-133		84	%REC	1	10/23/2014 10:56	103246			
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	IPOUNDS BY	GC/MS								
Benzene	NELAP	20		809	μg/L	10	10/21/2014 1:07	103215			
Ethylbenzene	NELAP	50	J	19	μg/L	10	10/21/2014 1:07	103215			
Methyl tert-butyl ether	NELAP	20		312	μg/L	10	10/21/2014 1:07	103215			
Toluene	NELAP	50	J	11	μg/L	10	10/21/2014 1:07	103215			
Xylenes, Total	NELAP	50	J	48	μg/L	10	10/21/2014 1:07	103215			
Surr: 1,2-Dichloroethane-d4		74.7-129		101.4	%REC	10	10/21/2014 1:07	103215			
Surr: 4-Bromoffuorobenzene		86-119		99.8	%REC	10	10/21/2014 1:07	103215			
Surr: Dibromofluoromethane		81.7-123		103.3	%REC	10	10/21/2014 1:07	103215			
Surr: Toluene-d8		84.3-114		96.4	%REC	10	10/21/2014 1:07	103215			
Elevated reporting limit due to hig	h levels of target and/or	non-target and	lytes.								





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-005

Client Sample ID: MW05

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CO	MPOUND:	S BY GC/MS				
Acenaphthene	NELAP	0.025		ND	mg/L	250	10/23/2014 14:36	103246
Acenaphthylene	NELAP	0.025		ND	mg/L	250	10/23/2014 14:36	103246
Anthracene	NELAP	0.0001		0.00692	mg/L	1	10/23/2014 11:27	103246
Benzo(a)anthracene	NELAP	0.0001		0.00094	mg/L	1	10/23/2014 11:27	103246
Benzo(a)pyrene	NELAP	0.0001		0.00058	mg/L	1	10/23/2014 11:27	103246
Benzo(b)fluoranthene	NELAP	0.0001		0.00055	mg/L	1	10/23/2014 11:27	103246
Benzo(g,h,i)perylene	NELAP	0.0001		0.00082	mg/L	1	10/23/2014 11:27	103246
Benzo(k)fluoranthene	NELAP	0.0001		0.00012	mg/L	1	10/23/2014 11:27	103246
Chrysene	NELAP	0.0001		0.00069	mg/L	1	10/23/2014 11:27	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:27	103246
Fluoranthene	NELAP	0.0001		0.00248	mg/L	1	10/23/2014 11:27	103246
Fluorene	NELAP	0.025	J	0.023	mg/L	250	10/23/2014 14:36	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		0.00015	mg/L	1	10/23/2014 11:27	103246
Naphthalene	NELAP	0.025		3	mg/L	250	10/23/2014 14:36	103246
Phenanthrene	NELAP	0.0001		0.0211	mg/L	1	10/23/2014 11:27	103246
Pyrene	NELAP	0.0001		0.00701	mg/L	1	10/23/2014 11:27	103246
Surr: 2-Fluorobiphenyl		34,3-105	S	185	%REC	250	10/23/2014 14:36	103246
Surr. 2-Fluorophenol		19.9-55.7		30	%REC	250	10/23/2014 14:36	103246
Surr: Nitrobenzene-d5		36.4-127	S	202.5	%REC	250	10/23/2014 14:36	103246
Surr: Phenol-d5		8.95-38.5	S	287.5	%REC	250	10/23/2014 14:36	103246
Surr: p-Terphenyl-d14		6.05-133		83.5	%REC	1	10/23/2014 11:27	103246
Surrogate recovery is outside QC I	imits due to matrix inte	erference.						
Elevated reporting limit due to mati	rix interference.							
SW-846 5030, 8260B, VOLAT	ILE ORGANIC COM	IPOUNDS BY	GC/MS					
Benzene	NELAP	200		7000	μg/L	100	10/22/2014 13:13	103247
Ethylbenzene	NELAP	500		2540	μg/L	100	10/22/2014 13:13	103247
Methyl tert-butyl ether	NELAP	200		355	μg/L	100	10/22/2014 13:13	103247
Toluene	NELAP	500		16400	μg/L	100	10/22/2014 13:13	103247
Xylenes, Total	NELAP	500		15200	μg/L	100	10/22/2014 13:13	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		98.6	%REC	100	10/22/2014 13:13	103247
Surr: 4-Bromofluorobenzene		86-119		99.7	%REC	100	10/22/2014 13:13	103247
Surr: Dibromofluoromethane		81.7-123		101	%REC	100	10/22/2014 13:13	103247
Surr. Toluene-d8		84.3-114		97.7	%REC	100	10/22/2014 13:13	103247
Elevated reporting limit due to high	levels of target and/o	r non-target and	alytes.					



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

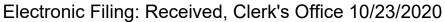
Report Date: 24-Oct-14

Lab ID: 14101048-006

Client Sample ID: MW09

Matrix: GROUNDWATER

MILLIAN OROGINATIA	1210					10,201		
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	, SEMI-VOLATILE O	RGANIC COM	APOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		0.00016	mg/L	1	10/22/2014 18:26	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Fluorene	NELAP	0.0001		0.00019	mg/L	1	10/22/2014 18:26	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Naphthalene	NELAP	0.0001		0.0145	mg/L	1	10/22/2014 18:26	103246
Phenanthrene	NELAP	0.0001		0.00024	mg/L	1	10/22/2014 18:26	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Surr: 2-Fluorobiphenyl		34.3-105		89.4	%REC	1	10/22/2014 18:26	103246
Surr. 2-Fluorophenol		19.9-55.7		50.5	%REC	1	10/22/2014 18:26	103246
Surr: Nitrobenzene-d5		36.4-127		67.8	%REC	1	10/22/2014 18:26	103246
Surr: Phenol-d5		8.95-38.5		34.4	%REC	1	10/22/2014 18:26	103246
Surr: p-Terphenyl-d14		6.05-133		99	%REC	1	10/22/2014 18:26	103246
SW-846 5030, 8260B, VOLA	TILE ORGANIC CON	POUNDS BY	GC/MS		•			
Benzene	NELAP	2		ND	μg/L	1	10/22/2014 13:40	103247
Ethylbenzene	NELAP	5		ND	μg/L	1	10/22/2014 13:40	103247
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/22/2014 13:40	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 13:40	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 13:40	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		103.1	%REC	1	10/22/2014 13:40	103247
Surr: 4-Bromofluorobenzene		86-119		98.8	%REC	1	10/22/2014 13:40	103247
Surr: Dibromofluoromethane		81.7-123		102.7	%REC	1	10/22/2014 13:40	103247
Surr: Toluene-d8		84.3-114		97.6	%REC	1	10/22/2014 13:40	103247





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

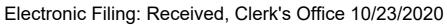
Report Date: 24-Oct-14

Lab ID: 14101048-007

Client Sample ID: MW10

Matrix: GROUNDWATER

Matrix: GROONDAYA	MATIN: GROUNDAVATER	-		Concention	Date. 10/	10,201	11.20	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS	, SEMI-VOLATILE O	RGANIC CON	IPOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Surr: 2-Fluorobiphenyl		34.3-105		63.4	%REC	1	10/22/2014 18:57	103246
Surr: 2-Fluorophenol		19.9-55.7		34.9	%REC	1	10/22/2014 18:57	103246
Surr: Nitrobenzene-d5		36.4-127		50.2	%REC	1	10/22/2014 18:57	103246
Surr: Phenol-d5		8.95-38.5		22.9	%REC	1	10/22/2014 18:57	103246
Surr: p-Terphenyl-d14		6.05-133		80.1	%REC	1	10/22/2014 18:57	103246
SW-846 5030, 8260B, VOLA	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/22/2014 14:08	103247
Ethylbenzene	NELAP	5		ND	μg/L	1	10/22/2014 14:08	103247
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/22/2014 14:08	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 14:08	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 14:08	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.2	%REC	1	10/22/2014 14:08	103247
Sun: 4-Bromofluorobenzene		86-119		97.7	%REC	1	10/22/2014 14:08	103247
Surr: Dibromofluoromethane		81.7-123		101.1	%REC	1	10/22/2014 14:08	103247
Surr: Toluene-d8		84,3-114		95.7	%REC	1	10/22/2014 14:08	103247





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

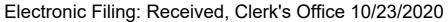
Report Date: 24-Oct-14

Lab ID: 14101048-008

Client Sample ID: MW11

Matrix: GROUNDWATER

Matrix: GROUNDWAT	EK			Conection	Date: 10/	10/2014	14.47	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	POUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Surr: 2-Fluorobiphenyl		34.3-105		88.9	%REC	1	10/22/2014 15:18	103246
Surr: 2-Fluorophenol		19.9-55.7		52.6	%REC	1	10/22/2014 15:18	103246
Surr: Nitrobenzene-d5		36.4-127		71.5	%REC	1	10/22/2014 15:18	103246
Surr: Phenol-d5		8.95-38.5		34.4	%REC	1	10/22/2014 15:18	103246
Surr: p-Terphenyl-d14		6.05-133		98.4	%REC	1	10/22/2014 15:18	103246
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS		······································			
Benzene	NELAP	2		ND	μg/L	1	10/22/2014 14:35	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 14:35	103247
Methyl tert-butyl ether	NELAP	2	J	1.5	μg/L	1	10/22/2014 14:35	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 14:35	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 14:35	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.7	%REC	1	10/22/2014 14:35	103247
Surr: 4-Bromofluorobenzene		86-119		98.2	%REC	1	10/22/2014 14:35	103247
Surr: Dibromofluoromethane		81.7-123		103	%REC	1	10/22/2014 14:35	103247
Surr: Toluene-d8		84.3-114		97	%REC	1	10/22/2014 14:35	103247





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-009

Client Sample ID: MW12

Matrix: GROUNDWATER

Matrix: GROUNDWAT	<u>EK</u>		Conection	Date. 10/	10/2017	17.51	
Analyses	Certification	RL_Q	ual Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COMPO	UNDS BY GC/MS				
Acenaphthene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Acenaphthylene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Anthracene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Benzo(a)anthracene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	
Benzo(a)pyrene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Benzo(b)fluoranthene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Benzo(g,h,i)perylene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Benzo(k)fluoranthene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Chrysene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	
Dibenzo(a,h)anthracene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Fluoranthene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Fluorene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Naphthalene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Phenanthrene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Pyrene	NELAP	0.0001	ND	mg/L	1	10/22/2014 15:49	103246
Surr: 2-Fluorobiphenyl		34.3-105	77.2	%REC	1	10/22/2014 15:49	103246
Surr: 2-Fluorophenol		19.9-55.7	42.8	%REC	1	10/22/2014 15:49	103246
Surr: Nitrobenzene-d5		36.4-127	61.5	%REC	1	10/22/2014 15:49	103246
Surr: Phenol-d5		8.95-38.5	28.2	%REC	1	10/22/2014 15:49	103246
Surr: p-Temphenyl-d14		6.05-133	87.5	%REC	1	10/22/2014 15:49	103246
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CO	POUNDS BY GO	C/MS				
Benzene	NELAP	2	ND	μg/L	1	10/21/2014 3:24	103215
Ethylbenzene	NELAP	5	ND	µg/L	1	10/21/2014 3:24	103215
Methyl tert-butyl ether	NELAP	2	ND	µg/L	1	10/21/2014 3:24	103215
Toluene	NELAP	5	ND	μg/L	1	10/21/2014 3:24	103215
Xylenes, Total	NELAP	5	ND	µg/L	1	10/21/2014 3:24	103215
Surr: 1,2-Dichloroethane-d4		74.7-129	101.5	%REC	1	10/21/2014 3:24	103215
Surr: 4-Bromofluorobenzene		86-119	98.4	%REC	1	10/21/2014 3:24	103215
Surr: Dibromofluoromethane		81.7-123	102.6	%REC	1	10/21/2014 3:24	103215
Surr: Toluene-d8		84.3-114	96.3	%REC	1	10/21/2014 3:24	103215



Laboratory Results

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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

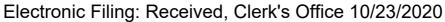
Report Date: 24-Oct-14

Lab ID: 14101048-010

Client Sample ID: MW13

Matrix: GROUNDWATER

WINTER SKOUNDWA	ILR			Concention	Date. 10/	10/2017	11.21	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	APOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Вепzo(а)рутеле	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(b)fluoranthene	NELAP	0.0001		NĎ	mg/L	1	10/22/2014 16:20	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		NĐ	mg/L	1	10/22/2014 16:20	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Surr: 2-Fluorobiphenyl		34.3-105		76.4	%REC	1	10/22/2014 16:20	103246
Surr: 2-Fluorophenol		19,9-55.7		42.7	%REC	1	10/22/2014 16:20	103246
Surr: Nitrobenzene-d5		36.4-127		60.8	%REC	1	10/22/2014 16:20	103246
Surr: Phenol-d5		8.95-38.5		28.3	%REC	1	10/22/2014 16:20	103246
Surr: p-Terphenyl-d14		6.05-133		85.1	%REC	1	10/22/2014 16:20	103246
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 3:51	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 3:51	103215
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/21/2014 3:51	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 3:51	103215
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 3:51	103215
Surr. 1,2-Dichloroethane-d4		74.7-129		100.6	%REC	1	10/21/2014 3:51	103215
Surr: 4-Bromofluorobenzene		86-119		97.4	%REC	1	10/21/2014 3:51	103215
Surr: Dibromofluoromethane		81.7-123		102.5	%REC	1	10/21/2014 3:51	103215
Surr: Toluene-d8		84.3-114		99.2	%REC	1	10/21/2014 3:51	103215





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

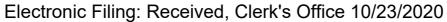
Report Date: 24-Oct-14

Lab ID: 14101048-011

Client Sample ID: MW14

Matrix: GROUNDWATER

MATIX: GROUNDWA	ILK			Concention	Date. 10/	10/2017	11.00	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS	, SEMI-VOLATILE O	RGANIC COM	/IPOUNDS	BY GC/MS	-			
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Surr: 2-Fluorobiphenyl		34.3-105		70.4	%REC	1	10/22/2014 16:52	103246
Surr: 2-Fluorophenol		19.9-55.7		38.3	%REC	1	10/22/2014 16:52	103246
Surr: Nitrobenzene-d5		36.4-127		54.2	%REC	1	10/22/2014 16:52	103246
Surr: Phenol-d5		8.95-38.5		24.8	%REC	1	10/22/2014 16:52	103246
Surr: p-Terphenyl-d14		6.05-133		81.7	%REC	1	10/22/2014 16:52	103246
SW-846 5030, 8260B, VOLAT	TILE ORGANIC COM	POUNDS BY	GC/MS			,		
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 4:18	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 4:18	103215
Methyl tert-butyl ether	NELAP	2		145	μg/L	1	10/21/2014 4:18	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 4:18	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 4:18	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.8	%REC	1	10/21/2014 4:18	103215
Surr: 4-Bromofluorobenzene		86-119		98	%REC	1	10/21/2014 4:18	103215
Surr: Dibromofluoromethane		81.7-123		101.7	%REC	1	10/21/2014 4:18	103215
Surr: Toluene-d8		84.3-114		97.6	%REC	1	10/21/2014 4:18	103215





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

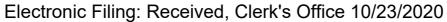
Report Date: 24-Oct-14

Lab ID: 14101048-012

Client Sample ID: MW15

Matrix: GROUNDWATER

WIATIA. GROUNDWA	ILN			Concention	Date. 10/	10/2017	10.17	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CON	IPOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Surr: 2-Fluorobiphenyl		34.3-105		70.5	%REC	1	10/22/2014 17:23	103246
Surr: 2-Fluorophenol		19.9-55.7		36.5	%REC	1	10/22/2014 17:23	103246
Surr. Nitrobenzene-d5		36.4-127		54.1	%REC	1	10/22/2014 17:23	103246
Surr: Phenol-d5		8.95-38.5		24.4	%REC	1	10/22/2014 17:23	103246
Surr: p-Terphenyl-d14		6.05-133		83	%REC	1	10/22/2014 17:23	103246
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 4:45	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 4:45	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 4:45	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 4:45	103215
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 4:45	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		99.9	%REC	1	10/21/2014 4:45	103215
Surr: 4-Bromofluorobenzene		86-119		99.9	%REC	1	10/21/2014 4:45	103215
Surr: Dibromofluoromethane		81.7-123		100	%REC	1	10/21/2014 4:45	103215
Surr: Toluene-d8		84.3-114		98.4	%REC	1	10/21/2014 4:45	103215





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

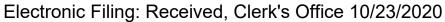
Report Date: 24-Oct-14

Lab ID: 14101048-013

Client Sample ID: MW16

Matrix: GROUNDWATER

MAGIX. GROUNDANA	LIN			Concention	Date. 10/	10/2011	13.20	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	MPOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Surr: 2-Fluorobiphenyl		34.3-105		75	%REC	1	10/22/2014 17:55	103246
Surr: 2-Fluorophenol		19.9-55.7		40.7	%REC	1	10/22/2014 17:55	103246
Surr. Nitrobenzene-d5		36.4-127		59.8	%REC	1	10/22/2014 17:55	103246
Surr: Phenol-d5		8.95-38.5		26.3	%REC	1	10/22/2014 17:55	103246
Surr: p-Terphenyl-d14		6.05-133		81.9	%REC	1	10/22/2014 17:55	103246
SW-846 5030, 8260B, VOLA	TILE ORGANIC CON	POUNDS BY	/ GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 5:12	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 5:12	103215
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/21/2014 5:12	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 5:12	103215
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 5:12	103215
Surr. 1,2-Dichloroethane-d4		74.7-129		101.2	%REC	1	10/21/2014 5:12	103215
Surr: 4-Bromofluorobenzene		86-119		99.5	%REC	1	10/21/2014 5:12	103215
Surr: Dibromofluoromethane		81.7-123		100.6	%REC	1	10/21/2014 5:12	103215
Surr: Toluene-d8		84.3-114		97	%REC	1	10/21/2014 5:12	103215





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Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

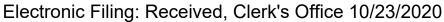
Report Date: 24-Oct-14

Lab ID: 14101048-014

Client Sample ID: MW17

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	/POUNDS	BY GC/MS		•		*
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Surr: 2-Fluorobiphenyl		34.3-105		72.6	%REC	1	10/23/2014 11:59	103246
Surr: 2-Fluorophenol		19.9-55.7		35.4	%REC	1	10/23/2014 11:59	103246
Surr: Nitrobenzene-d5		36.4-127		56.6	%REC	1	10/23/2014 11:59	103246
Surr: Phenol-d5		8.95-38.5		24.4	%REC	1	10/23/2014 11:59	103246
Surr: p-Terphenyl-d14		6.05-133		78.9	%REC	1	10/23/2014 11:59	103246
SW-846 5030, 8260B, VOLAT	TILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NÉLAP	2		ND	μ g/ L	1	10/21/2014 5:39	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 5:39	103215
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/21/2014 5:39	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 5:39	103215
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 5:39	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.7	%REC	1	10/21/2014 5:39	103215
Surr: 4-Bromofluorobenzene		86-119		99	%REC	1	10/21/2014 5:39	103215
Surr: Dibromofluoromethane		81.7-123		101.5	%REC	1	10/21/2014 5:39	103215
Surr: Toluene-d8		84.3-114		98.3	%REC	1	10/21/2014 5:39	103215





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-015

Client Sample ID: MW18

Matrix: GROUNDWATER

MARIA: GROUNDAYA	I CIN			Date. 10/	TO/LOT	10.00	
Analyses	Certification	RL (Qual Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COMP	OUNDS BY GC/MS			•	
Acenaphthene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Acenaphthylene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Anthracene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Benzo(a)anthracene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Benzo(a)pyrene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Benzo(b)fluoranthene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Benzo(g,h,i)perylene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Benzo(k)fluoranthene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Chrysene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Dibenzo(a,h)anthracene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Fluoranthene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Fluorene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
indeno(1,2,3-cd)pyrene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Naphthalene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Phenanthrene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Pyrene	NELAP	0.0001	ND	mg/L	1	10/23/2014 12:30	103246
Surr: 2-Fluorobiphenyl		34.3-105	72.8	%REC	1	10/23/2014 12:30	103246
Surr: 2-Fluorophenol		19.9-55.7	33.1	%REC	1	10/23/2014 12:30	103246
Surr. Nitrobenzene-d5		36.4-127	59.4	%REC	1	10/23/2014 12:30	103246
Surr: Phenol-d5		8.95-38.5	22.1	%REC	1	10/23/2014 12:30	103246
Surr: p-Terphenyl-d14		6.05-133	71.1	%REC	1	10/23/2014 12:30	103246
SW-846 5030, 8260B, VOLA	TILE ORGANIC COM	POUNDS BY G	C/MS				
Benzene	NELAP	2	ND	μg/L	1	10/21/2014 6:06	103215
Ethylbenzene	NELAP	5	ND	µg/L	1	10/21/2014 6:06	103215
Methyl tert-butyl ether	NELAP	2	ND	μg/L	1	10/21/2014 6:06	103215
Toluene	NELAP	5	ND	μg/L	1	10/21/2014 6:06	103215
Xylenes, Total	NELAP	5	ND	µg/L	1	10/21/2014 6:06	103215
Surr: 1,2-Dichloroethane-d4		74.7-129	103.2	%REC	1	10/21/2014 6:06	103215
Surr: 4-Bromofluorobenzene		86-119	97.4	%REC	1	10/21/2014 6:06	103215
Surr. Dibromofluoromethane		81.7-123	102.4	%REC	1	10/21/2014 6:06	103215
Surr: Toluene-d8		84.3-114	96.3	%REC	1	10/21/2014 6:06	103215

Client Sample ID: MW19



Lab ID: 14101048-016

Laboratory Results

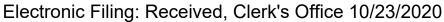
http://www.teklabinc.com/

Client: Chase Environmental Group Work Order: 14101048

Client Project: Parkers/F0908004 Report Date: 24-Oct-14

Matrix: GROUNDWATER Collection Date: 10/16/2014 14:37

THE STATE OF COURT OF		·		- Contection	Date. 10/	10/201	11.57	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	APOUNDS	BY GC/MS	•			***
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Surr: 2-Fluorobiphenyl		34.3-105		73.7	%REC	1	10/23/2014 13:02	103246
Sun: 2-Fluorophenol		19.9-55.7		33.8	%REC	1	10/23/2014 13:02	103246
Surr. Nitrobenzene-d5		36.4-127		60.4	%REC	1	10/23/2014 13:02	103246
Surr: Phenol-d5		8.95-38.5		23.6	%REC	1	10/23/2014 13:02	103246
Surr: p-Terphenyl-d14		6.05-133		73.9	%REC	1	10/23/2014 13:02	103246
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/21/2014 6:32	103215
Ethylbenzene	NELAP	5		ND	μg/L	1	10/21/2014 6:32	103215
Methyl tert-butyl ether	NELAP	2		88.2	μg/L	1	10/21/2014 6:32	103215
Toluene	NELAP	5		ND	μg/L	1	10/21/2014 6:32	103215
Xylenes, Total	NELAP	5		ND	μg/L	1	10/21/2014 6:32	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.9	%REC	1	10/21/2014 6:32	103215
Surr: 4-Bromofluorobenzene		86-119		98.9	%REC	1	10/21/2014 6:32	103215
Surr: Dibromofluoromethane		81.7-123		102.6	%REC	1	10/21/2014 6:32	103215
Surr: Toluene-d8		84.3-114		99.4	%REC	1	10/21/2014 6:32	103215





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-017

Client Sample ID: MW20

Matrix: GROUNDWATER

MATIN: GROUNDANA	·			Concention	Date. 10/	10/2017	13,73	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS	SEMI-VOLATILE O	RGANIC CON	POUNDS	BY GC/MS		•		· · · · · · · · · · · · · · · · · · ·
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Naphthalene	NELAP	0.0001		0.00233	mg/L	1	10/23/2014 11:57	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Surr: 2-Fluorobiphenyl		34.3-105		76.2	%REC	1	10/23/2014 11:57	103246
Surr: 2-Fluorophenol		19.9-55.7		34.1	%REC	1	10/23/2014 11:57	103246
Surr: Nitrobenzene-d5		36.4-127		60	%REC	1	10/23/2014 11:57	103246
Surr: Phenol-d5		8.95-38.5		25.6	%REC	1	10/23/2014 11:57	103246
Surr: p-Terphenyl-d14		6.05-133		61.5	%REC	1	10/23/2014 11:57	103246
SW-846 5030, 8260B, VOLA	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	40		65.8	μg/L	20	10/21/2014 6:59	103215
Ethylbenzene	NELAP	100	J	44	μg/L	20	10/21/2014 6:59	103215
Methyl tert-butyl ether	NELAP	40		1010	μg/L	20	10/21/2014 6:59	103215
Toluene	NELAP	100		ND	μg/L	20	10/21/2014 6:59	103215
Xylenes, Total	NELAP	100	J	56	μg/L	20	10/21/2014 6:59	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.8	%REC	20	10/21/2014 6:59	103215
Surr: 4-Bromofluorobenzene		86-119		97.7	%REC	20	10/21/2014 6:59	103215
Surr: Dibromofluoromethane		81.7-123		101.4	%REC	20	10/21/2014 6:59	103215
Surr: Toluene-d8		84.3-114		95.9	%REC	20	10/21/2014 6:59	103215
Elevated reporting limit due to hig	h levels of target and/or	r non-target ana	lytes.					



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-018

Client Sample ID: MW21

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, S	SEMI-VOLATILE O	RGANIC CON		BY GC/MS		· · · · · · · · · · · · · · · · · · ·		
Acenaphthene	NELAP	0.0001		0.00067	mg/L	1	10/23/2014 12:30	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Anthracene	NELAP	0.0001		0.00032	mg/L	1	10/23/2014 12:30	103246
Benzo(a)anthracene	NELAP	0.0001	J	0.00009	mg/L	1	10/23/2014 12:30	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluorene	NELAP	0.0001		0.00078	mg/L	1	10/23/2014 12:30	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Naphthalene	NELAP	0.0025		0.13	mg/L	25	10/23/2014 14:10	103246
Phenanthrene	NELAP	0.0001		0.00078	mg/L	1	10/23/2014 12:30	103246
Pyrene	NELAP	0.0001		0.00025	mg/L	1	10/23/2014 12:30	103246
Surr: 2-Fluorobiphenyl		34.3-105		50.9	%REC	1	10/23/2014 12:30	103246
Surr: 2-Fluorophenol		19. 9 -55.7		32.4	%REC	1	10/23/2014 12:30	103246
Surr: Nitrobenzene-d5		36.4-127	S	0	%REC	1	10/23/2014 12:30	103246
Surr: Phenol-d5		8.95-38.5	S	0	%REC	1	10/23/2014 12:30	103246
Surr: p-Terphenyl-d14		6.05-133		72.5	%REC	1	10/23/2014 12:30	103246
Surrogate recovery is outside QC li								
SW-846 5030, 8260B, VOLATI	LE ORGANIC CON	IPOUNDS BY	GC/MS					
Benzene	NELAP	40		380	μg/L	20	10/21/2014 7:26	
Ethylbenzene	NELAP	100		343	μg/L	20	10/21/2014 7:26	103215
Methyl tert-butyl ether	NELAP	40	J	12	μg/L	20	10/21/2014 7:26	
Toluene	NELAP	100		634	μg/L	20	10/21/2014 7:26	
Xylenes, Total	NELAP	100		3580	μg/L	20	10/21/2014 7:26	
Surr. 1,2-Dichloroethane-d4		74.7-129		102.3	%REC	20	10/21/2014 7:26	
Surr: 4-Bromofluorobenzene		86-119		100.4	%REC	20	10/21/2014 7:26	
		81.7-123		101.9	%REC	20	10/21/2014 7:26	103215
Surr: Dibromofluoromethane							10/21/2014 7:26	



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-019

Client Sample ID: MW22

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CON	POUNDS	S BY GC/MS	-			
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Surr: 2-Fluorobiphenyl		34.3-105		74.1	%REC	1	10/23/2014 13:03	103246
Surr: 2-Fluorophenol		19.9-55.7		32.2	%REC	1	10/23/2014 13:03	103246
Surr: Nitrobenzene-d5		36.4-127		52.8	%REC	1	10/23/2014 13:03	103246
Surr. Phenol-d5		8.95-38.5		20.6	%REC	1	10/23/2014 13:03	103246
Surr. p-Terphenyl-d14		6.05-133		58.5	%REC	1	10/23/2014 13:03	103246
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CON	IPOUNDS BY	GC/MS					
Benzene	NELAP	2	J	2	μg/L	1	10/22/2014 15:02	103247
Ethylbenzene	NELAP	5	J	1.5	μg/L	1	10/22/2014 15:02	103247
Methyl tert-butyl ether	NELAP	2		14.3	μg/L	1	10/22/2014 15:02	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 15:02	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 15:02	103247
Surr: 1,2-Dichloroethane-d4		74,7-129		97.2	%REC	1	10/22/2014 15:02	103247
Surr. 4-Bromofluorobenzene		86-119		98.7	%REC	1	10/22/2014 15:02	103247
Surr: Dibromofluoromethane		81.7-123		102.4	%REC	1	10/22/2014 15:02	103247
Surr: Toluene-d8		84.3-114		96.7	%REC	1	10/22/2014 15:02	103247



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-020

Client Sample ID: MW23

Matrix: GROUNDWATER

THE STATE OF THE S				0011001101		10,201.		
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CO	/IPOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(g,h,i)perytene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Surr: 2-Fluorobiphenyl		34.3-105		79.8	%REC	1	10/23/2014 13:37	103246
Surr. 2-Fluorophenol		19.9-55.7		36.1	%REC	1	10/23/2014 13:37	103246
Surr: Nitrobenzene-d5		36.4-127		63	%REC	1	10/23/2014 13:37	103246
Surr: Phenol-d5		8.95-38.5		23.8	%REC	1	10/23/2014 13:37	103246
Surr: p-Terphenyl-d14		6.05-133		77.9	%REC	1	10/23/2014 13:37	103246
SW-846 5030, 8260B, VOLAT	ILE ORGANIC COM	POUNDS BY	GC/MS					
Benzene	NELAP	2	j	0.6	μg/L	1	10/22/2014 15:29	103247
Ethylbenzene	NELAP	5		ND	μg/L	1	10/22/2014 15:29	103247
Methyl tert-butyl ether	NELAP	2		115	μg/L	1	10/22/2014 15:29	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 15:29	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 15:29	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		99	%REC	1	10/22/2014 15:29	103247
Surr: 4-Bromofluorobenzene		86-119		95.5	%REC	1	10/22/2014 15:29	103247
Surr: Dibromofluoromethane		81.7-123		102.1	%REC	1	10/22/2014 15:29	103247
Surr: Toluene-d8		84.3-114		98.4	%REC	1	10/22/2014 15:29	103247



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-021

Client Sample ID: MW24

Matrix: GROUNDWATER

		-	-					
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CO	/POUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Surr: 2-Fluorobiphenyl		34.3-105		78.7	%REC	1	10/22/2014 13:19	103210
Surr: 2-Fluorophenol		19.9-55.7		39.7	%REC	1	10/22/2014 13:19	103210
Surr: Nitrobenzene-d5		36.4-127		60.9	%REC	1	10/22/2014 13:19	103210
Surr: Phenol-d5		8.95-38.5		26.4	%REC	1	10/22/2014 13:19	103210
Surr: p-Terphenyl-d14		6.05-133		87.3	%REC	1	10/22/2014 13:19	103210
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2	•	ND	μg/L	1	10/22/2014 15:55	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 15:55	103247
Methyl tert-butyl ether	NELAP	20		331	μg/L	10	10/23/2014 12:45	103294
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 15:55	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 15:55	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		102.9	%REC	1	10/22/2014 15:55	103247
Surr: 4-Bromofluorobenzene		86-119		98.5	%REC	1	10/22/2014 15:55	103247
Surr: Dibromofluoromethane		81.7-123		101.6	%REC	1	10/22/2014 15:55	103247
Surr: Toluene-d8		84,3-114		98.2	%REC	1	10/22/2014 15:55	103247



Laboratory Results

http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

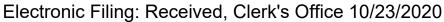
Report Date: 24-Oct-14

Lab ID: 14101048-022

Client Sample ID: MW25

Matrix: GROUNDWATER

MATIN. GROUNDWAT	LK			Conceilor	Date. 10/	10/2017	10.11	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC COM	IPOUNDS	BY GC/MS				
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Chrysene	NÉLAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Surr: 2-Fluorobiphenyl		34.3-105		67.1	%REC	1	10/22/2014 13:50	103210
Surr: 2-Fluorophenol		19.9-55.7		33.8	%REC	1	10/22/2014 13:50	103210
Surr: Nitrobenzene-d5		36.4-127		52	%REC	1	10/22/2014 13:50	103210
Surr: Phenol-d5		8.95-38.5		22.1	%REC	1	10/22/2014 13:50	103210
Sum: p-Terphenyl-d14		6.05-133		82.2	%REC	1	10/22/2014 13:50	103210
SW-846 5030, 8260B, VOLAT	ILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/22/2014 16:22	103247
Ethylbenzene	NELAP	5		ND	μg/L	1	10/22/2014 16:22	103247
Methyl tert-butyl ether	NELAP	2		ND	μg/L	1	10/22/2014 16:22	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 16:22	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 16:22	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.4	%REC	1	10/22/2014 16:22	103247
Surr: 4-Bromofluorobenzene		86-119		96.5	%REC	1	10/22/2014 16:22	
Surr. Dibromofluoromethane		81.7-123		102.9	%REC	1	10/22/2014 16:22	103247
Surr: Toluene-d8		84.3-114		98	%REC	1	10/22/2014 16:22	103247





http://www.teklabinc.com/

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-023

Client Sample ID: MW26

Matrix: GROUNDWATER

MARIEN. GROONDAYA	TEN.					10/2011	10.55	
Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS,	SEMI-VOLATILE O	RGANIC CO	IPOUNDS	BY GC/MS			 	
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Surr: 2-Fluorobiphenyl		34.3-105		73.1	%REC	1	10/22/2014 14:22	103210
Surr: 2-Fluorophenol		19.9-55.7		38	%REC	1	10/22/2014 14:22	103210
Surr: Nitrobenzene-d5		36.4-127		57.7	%REC	1	10/22/2014 14:22	103210
Surr. Phenol-d5		8.95-38.5		26	%REC	1	10/22/2014 14:22	103210
Surr: p-Terphenyl-d14		6.05-133		77.2	%REC	1	10/22/2014 14:22	103210
SW-846 5030, 8260B, VOLAT	TILE ORGANIC CON	POUNDS BY	GC/MS					
Benzene	NELAP	2		ND	μg/L	1	10/22/2014 16:49	103247
Ethylbenzene	NELAP	5		ND	μg/L	1	10/22/2014 16:49	103247
Methyl tert-butyl ether	NELAP	2		22.5	μg/L	1	10/22/2014 16:49	103247
Toluene	NELAP	5		ND	μg/L	1	10/22/2014 16:49	103247
Xylenes, Total	NELAP	5		ND	μg/L	1	10/22/2014 16:49	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		103.6	%REC	1	10/22/2014 16:49	103247
Surr: 4-Bromofluorobenzene		86-119		98.4	%REC	1	10/22/2014 16:49	103247
Surr: Dibromofluoromethane		81.7-123		102.5	%REC	1	10/22/2014 16:49	103247
Surr: Toluene-d8		84.3-114		98.3	%REC	1	10/22/2014 16:49	103247



Receiving Check List

Work Order: 14101048 Client: Chase Environmental Group Client Project: Parkers/F0908004 Report Date: 24-Oct-14 Carrier: Sean Spinner Received By: SRH Elizabeth a Hurley ml Pole Completed by: Reviewed by: On: On: 17-Oct-14 17-Oct-14 Elizabeth A. Hurley Emily E. Pohlman Extra pages included 2 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗹 No 🗌 Not Present Temp °C 1.2 Type of thermal preservation? None Ice 🗹 Blue Ice Dry Ice \square No 🗌 Chain of custody present? Yes \square Chain of custody signed when relinquished and received? Yes No \checkmark Chain of custody agrees with sample labels? Yes Yes \square No 🗌 Samples in proper container/bottle? $oldsymbol{
olimits}$ No . Sample containers intact? Yes Sufficient sample volume for indicated test? Yes \checkmark No 🗆 \checkmark No 🔲 Yes All samples received within holding time? NA 🗹 Field Lab 🔲 Reported field parameters measured: Yes 🗹 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Yes 🗹 No 🗔 Water - at least one vial per sample has zero headspace? No VOA vials No TOX containers Yes 🗌 No 🗆 Water - TOX containers have zero headspace? NA 🗆 Yes 🗹 No 🗀 Water - pH acceptable upon receipt? Yes 🗌 No 🗌 NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Any No responses must be detailed below or on the COC.

http://www.teklabinc.com/

CHAIN OF CUSTODY

pg. _/ of _3 Work Order # 14101043

TEKLAR INC 5445 Horseshoe Lake Road ~ Collinsville. IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

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CHAIN OF CUSTODY

pg. 2 of 3 Work Order # 4101043

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

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CHAIN OF CUSTODY

pg. 3 of 3 Work Order # 41010113

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

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Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A.	. Site Identification		
	Site Name: Parkers Gas & More Site Address (Not a P.O. Box): 101 E Outerbelt	IEPA LPC# (10-digit): <u>00 01</u>	05006
	City: Clayton County: Adams	ZIP Code: 62.3	24
	Leaking UST Technical File		
В.	Sample Collector		
	I certify that:		
	Appropriate sampling equipment/methods were utilized to ob-	otain representative samples.	(Initial)
	2. Chain-of-custody procedures were followed in the field.		Initial)
	Sample integrity was maintained by proper preservation.		(Initial)
	All samples were properly labeled.		(Injual)
C.	Laboratory Representative		
	I certify that: / 4101048		
	Proper chain-of-custody procedures were followed as documents	nented on the chain-of-custody forms	MLDII (Initial)
	Sample integrity was maintained by proper preservation.		(Initial)
	All samples were properly labeled.		(Initial)
	Quality assurance/quality control procedures were established	ed and carried out.	(Initial)
	Sample holding times were not exceeded.		(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

カレクゴ (Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample C	Collector	Laboratory Representative
Name	Mervin Johnson	Name Marvin L. Parling II
Title	Sc PM	Title Project Manager
Company	CEG Inc	Company Teklab, Inc.
Address	PO BON AB	Address 5445 Horseshoe Lake Rd.
City	Centralia 80	City Collinsville
State	Illino!s	State IL
Zip Code _	67801	Zip Code 62234
Phone	618 533 6740	Phone (618) 344-1004
Signature _	moll	Signature
Date	6 10/24/14	Date (0/24/14)

APPENDIX C Boring Logs

C,	eg	Dril	lling & Remed	RONMENTA	stractors	Soil Boring Log Page 1 of 1
Duning	<u> </u>	418 South Poplar, Centralia, Illinois 62801 Parkers Gas & More				Boring Location: OS-1
Projec Date D			8/13/201		:	Sampling Method: 1 ½" x 5' Liners
	ompleted:		8/13/201			Surface Elevation: NA
	Method:			rProbe 960	O (Direct P	
	g Company			vironmenta		
			T	r		
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1	ļ					0-1': Asphalt and crushed limestone
2						1' - 10': Black/gray/green silty clay. Obvious petroleum odor & stain
3				40		
4	OS-1		1800			
5					· · · · · · · · · · · · · · · · · · ·	
6						
7			1400	80		
8			1400	80		
9	į					
10			_		,	End of Boring
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C,	eg	Dril	ASE ENVIE	ial Action Co	ntractors	Soil Boring Log Page 1 of 1
	<u> </u>	418	South Poplar,	Centralia, Illir	nois 62801	
Projec	t:		Parkers G	as & More)	Boring Location: OS-2
Date D	rilled:		8/13/201	3		Sampling Method: 1 ½" x 5' Liners
Date C	ompleted		8/13/201	3		Surface Elevation: NA
	Method:		AMS Powe	rProbe 960	0 (Direct P	ush) Total Depth (ft): 10
_	g Company			vironment		
			I		r	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1	! 				<u> </u>	0-1': Crushed limestone and topsoil
2						1' - 5': Black silty clay, obvious petroleum odor at 3' - 4'.
3				80		
4	OS-2		600			
5			<u> </u>			
6						5' - 10': Firm gray/green silty clay. Strong petroleum odor
7						
8		:	1300	100		
9						
10						End of Boring
	-					

		СН	ASE ENVIE	RONMENTA	AL GROUP	INC.
	eg	Dril	lling & Remed	ial Action Co	ttractors	Soil Boring Log Page 1 of 1
_	5	418 South Poplar, Centralia, Illinois 62801				
Projec	t:		Parkers G	as & More)	Boring Location: OS-3
Date D	rilled:		8/13/201	3		Sampling Method: 1 ½" x 5' Liners
Date C	ompleted:	:	8/13/201			Surface Elevation: NA
Drilling	Method:		AMS Powe	rProbe 960	0 (Direct P	
Drilling	g Company	/: 	Chase Env	/ironmenta	al Group, I	nc. Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 10': Brown silty clay, obvious petroleum odor at 5' - 10'.
3				60		
4				;		
5	OS-3		4			}
6						
7			59	20		
8			39	20		
9						
10						End of Boring

C	eg	Dri.	lling & Reme	RONMENT fial Action Co Centralia, Illi	ntractors	Soil Boring Log Page 1	of 1
Projec	:t:			as & More		Boring Location: OS-4	
_	Drilled:		8/13/201			Sampling Method: 1 ½" x 5' Liners	
Date (ompleted	:	8/13/201			Surface Elevation: NA	
	g Method:		AMS Powe	rProbe 960	00 (Direct P	Push) Total Depth (ft): 10	
Drillin	g Company	y:	Chase En	vironment	al Group,	Inc. Geologist: Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description	
1						0-1': Topsoil	
2						1' - 10': Brown silty clay, obvious petroleum odor at 5' - 8'.	
3				20			
4	OS-4		0				
5							
6			129		:		
7					{		
8			256	80			
9						Groundwater at 9' - 10'	,
10						End of Boring	
							1
						·	
	}						
				-			
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		<u> </u>			<u></u> _	<u></u>	

C,	$\overline{\mathbf{e_g}}$	Drü	IASE ENVIL	lial Action Co	ntractors	Soil Boring Log Page 1 of 1
2	<u> </u>	418 South Poplar, Centralia, Illinois 62801				Boring Location: OS-5
Project Date D		Parkers Gas & More				
	ompleted		8/13/201 8/13/201			Sampling Method: 1 ½" x 5' Liners Surface Elevation: NA
	Method:				O (Disease D	
	Company			rProbe 960 vironmenta		
	Company		1	1	ſ	inc. Geologist. Wal viii Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2			 - -			1' - 10': Brown silty clay, obvious petroleum odor at 5' - 10'.
3				40		
4	_ _ =					
5	OS-5		23			
6			500			
7	:					
8			400	80		
9						Groundwater at 9'
10			ļ			End of Boring
						

C,	eg	Drit	ASE ENVII	ial Action Co	ntractors	Soil Boring Log Page 1 of 1
	<u> </u>	418	South Poplar,	Centralia, Illin	nois 62801	
Projec				as & More	:	Boring Location: OS-6
Date D			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted		8/13/201		7.	Surface Elevation: NA
	Method:			rProbe 960		
Drilling	Company		Chase Env	vironment	al Group, I	Inc. Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 5': Brown silty clay, no obvious petroleum stain or odor.
3				60		
4						
5	OS-6	<u> </u>	20			
6						.5' 10': Firm brown silty to sandy clay.
7						
8			30	100		
9						Slight petroleum odor at 8'-9'.
10						End of Boring

C,	$\overline{\mathbf{e}_{\mathbf{p}}}$	Drii	lling & Remed	RONMENTA	ntractors	Soil Boring Log Page 1 of 1
	<u> </u>	418	South Poplar,	Centralia, Illin	nois 62801	
Projec		Parkers Gas & More				Boring Location: OS-7
Date C	Prilled:		8/13/201	3		Sampling Method: 1 ½" x 5' Liners
Date C	ompleted	:	8/13/201	3		Surface Elevation: NA
Drillin	g Method:		AMS Powe	rProbe 960	O (Direct P	Push) Total Depth (ft): 10
	g Company			vironment		
			ī		ī -	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsail
2		:]		1' - S': Brown silty clay, no obvious petroleum stain or odor.
3				70		
4						
5	OS-7		33			
6						5' 10': Firm brown silty to wet sandy clay.
7						
8			12	100		
9						Groundwater at 9'. Sfight petroleum stain/odor
10						End of Boring

C,	$\overline{\mathbf{e}_{\mathbf{g}}}$	Drû	IASE ENVIE	lial Action Co	ntractors	Soil Boring Log Page 1 of 1
Projec	<u>. </u>	9 418 South Poplar, Centralia, Illinois 62801 Parkers Gas & More				Boring Location: OS-8
Date C					:	
			8/13/201			Sampling Method: 1 ½" x 5' Liners Surface Elevation: NA
	ompleted		8/13/201			
	g Method:			rProbe 960		
Drilling	g Company		Chase Env	vironment	al Group, I	Inc. Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 10': Firm brown silty clay.
3				70		
4						
5	OS-8		0	<u> </u>	<u> </u> 	
6						
7		!	600	100		7'-8': Moderate petroleum stain/odor
8	:	:		100		Groundwater at 8'
9 10						End of Boring
10						End of Borning
				:		
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		ļ				<u>:</u>
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				·-··-		

Project: Parkers Gas & More Boring Location: OS-9	age 1 of	f 1
Project: Parkers Gas More Boring Location: OS-9 Date Drilled: 8/13/2013 Date Completed: 8/13/2013 Date Completed: 8/13/2013 Drilling Method: AMS PowerProbe 9600 (Direct Push) Drilling Company: Chase Environmental Group, Inc. Geologist: Marvin Johnson Geologic Description O-1': Topsoil 1' - 10': Firm brown silty clay. 8'-9': Moderate petroleum odor		
Date Drilled: 8/13/2013 Sampling Method: 1 ½" x 5' Liners Date Completed: 8/13/2013 Surface Elevation: NA Drilling Method: AMS PowerProbe 9600 (Direct Push) Total Depth (ft): 10 Drilling Company: Chase Environmental Group, Inc. Geologist: Marvin Johnson (1) 1 2 2 3 4 4 5 OS-9 2 100 1 1 - 10': Firm brown silty clay. 247 100 8'-9': Moderate petroleum odor		
Date Completed: 8/13/2013 Surface Elevation: NA Drilling Method: AMS PowerProbe 9600 (Direct Push) Total Depth (ft): 10 Drilling Company: Chase Environmental Group, Inc. Geologist: Marvin Johnson (***) *** ** ** ** ** ** ** ** ** ** ** ** *		
Drilling Method: AMS PowerProbe 9600 (Direct Push) Total Depth (ft): 10		
Drilling Company: Chase Environmental Group, Inc. Geologist: Marvin Johnson (1)		
(## 1		
0-1': Topsoil 1' - 10': Firm brown silty clay. 1' - 10': Firm brown silty clay. 5 OS-9		
1		
2		
3		
4		
S OS-9 2 6 7 8 247 100 8'-9': Moderate petroleum odor		
6 7 8 247 100 8'-9': Moderate petroleum odor		
7 8 247 100 8'-9': Moderate petroleum odor		
8 247 100 8'-9': Moderate petroleum odor		
8'-9': Moderate petroleum odor		
9 Groundwater at 9'		
10 End of Boring		

C,	eρ	. Dril	ASE ENVII	ial Action Co	ntractors	Soil Boring Log Page 1 of 1
<u> </u>		418 South Poplar, Centralia, Illinois 62801				
Projec		Parkers Gas & More				Boring Location: OS-10
Date D			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted:		8/13/201			Surface Elevation: NA
	Method:			rProbe 960		
Drilling	Company		Chase Env	/ironment	al Group, I	nc. Geologist: Marvin Johnson
Depth (ft)	Sample	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2	;					1' - 10': Firm brown silty clay.
3				100		
4	_					
5	OS-10		57			
6						
7			800	100		Obvious petroleum odor at 7'
8			800	100		
9						
10					<u></u>	End of Boring
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	i					
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	ļ				

		СН	ASE ENVIR	CONMENTA	AL GROUP	, INC.
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<u> </u>		418	South Poplar,			
Project				as & More	!	Boring Location: OS-11
Date D			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted:		8/13/2013		0 (0)	Surface Elevation: NA
	Method:		AMS Powe			
Drilling	Company		1	rironmenta		inc. Geologist: Iwai viii Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1		1				0-1': Topsoil
						1' - 5': Firm brown silty clay.
2						
				100		
3				100		
4						
'	05.44		_			
5	OS-11		0			
ا						5' - 10': Firm brown silty clay to wet gray sand-sandy clay
6					•	
7						
			1050	100	}	
8			1050	100		Obvious petroleum odor at 8'
9						
10						End of Boring
			1			
			1			
			1			
			1			
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C.	$\overline{\mathbf{e_{g}}}$		ASE ENVIE			Soil Boring Log Page 1 of 1
'	して		lling & Remed South Poplar,			
Projec	<u> </u>	710		as & More		Boring Location: OS-12
Date C			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted:	 	8/13/201			Surface Elevation: NA
	Method:	<u> </u>		rProbe 960	0 (Direct P	
	g Company			/ironmenta		
				1	ſ	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 5': Firm brown silty clay.
3				100		
4						
5	OS-12		2			
6						5' - 8': Firm brown silty clay to gray sandy clay
7		•				
8			4	100		
						8' - 10': Firm brown clay
9						End of Bosing
10						End of Boring
			<u> </u> 			
			: 			
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]			<u> </u>			
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	$\overline{}$	CH	ASE ENVII	RONMENT	AL GROUP	, INC.
	Co	Dri	lling & Remed	lial Action Co	ntractors	Soil Boring Log Page 1 of 1
<u> </u>	<u> </u>	418	South Poplar,			
Projec				as & More		Boring Location: OS-13
Date D			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted		8/13/201			Surface Elevation: NA
	g Method:			rProbe 960	_	
Drilling	g Company		Chase Env	vironment	al Group,	Inc. Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 5': Firm black-brown silty clay. No petroleum stain/odor
3				40		
4					<u> </u> - -	
5			2			
6						5' - 8': Firm black silty clay to soft moist sandy clay
7						
8				90		
9	OS-13		12			8' - 10': Wet brown sandy clay. Slight petroleum odor.
10						End of Boring
		į				
		·				

C		СН	ASE ENVII	RONMENTA	AL GROUP	P, INC.
	eg		ling & Remed			Soil Boring Log Page 1 of 1
	<u> </u>		South Poplar,			
Project				as & More	<u> </u>	Boring Location: RW-1
Date D			8/13/201			Sampling Method: 1 ½" x 5' Liners
	ompleted:		8/13/201			Surface Elevation: NA
	Method:			rProbe 960		
T	Company		Chase Env	/ironment		Inc. Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PiO (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
]	1' - 5': Firm black silty clay. No petroleum stain/odor
2						
3				100		
4						
5	OS-14		0			
-						5' - 8': Soft black silty clay
6						
7				!		
8			0	90		
9						8' - 10': Gray silty clay - sandy clay
10						End of Boring
11			i			
12						
13						
14						
15						
		'				
				}		
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C	e ~		ASE ENVIE			Cail Daring Lag
_ \	<u> </u>		lling & Remed			Soil Boring Log Page 1 of 1
	0	418	South Poplar,			
Projec			Parkers G		<u> </u>	Boring Location: OS-14
Date C			9/3/2013		-	Sampling Method: 2" x 5' Liners
	ompleted		9/3/2013			Surface Elevation: NA
	Method:		Kinematics		ers)	Total Depth (ft): 10 Geologist: Marvin Johnson
Urillin	g Company		Earth Sen			Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2					•	1' - S': Firm brown silty clay.
3				100		
4						
5						
6						5' - 15': Firm Brown clay
7						
8				90		
9						
10						Obvious petroleum stain/odor at 10' - 15'. Groundwater at 10'
11						
12					<u> </u> 	
13				90		
14						
15		•				End of Boring
!						
				i		
						

	_	СН	ASE ENVII	RONMENTA	AL GROUP	, INC.
	$\mathbf{e}_{\mathbf{g}}$	Drill	lling & Remed	lial Action Co	ntractors	Soil Boring Log Page 1 of 1
	5	418	South Poplar,	Centralia, Illia	nois 62801	3011 2011118 208
Proje	ct:		Parkers G	ias & More		Boring Location: FP-1
Date	Drilled:		9/4/2013			Sampling Method: 2" x 5' Liners
Date	Completed	:	9/4/2013			Surface Elevation: NA
Drillin	g Method:		Kinematics	KPL2 (Aug	ers)	Total Depth (ft): 10
Drillin	g Company	/ :	Earth Ser	vices		Geologist: Marvin Johnson
ت		int	5	<u>≥</u>	Ę	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
-				1		1' - 5': Firm brown silty clay. Slight petroleum odor
2						
3				100		
4						
5						5' - 15': Firm Brown clay
6						3 23. Fills Stories Clay
7						
8				90		
9						
10				ļ	·	Obvious petroleum stain/odor at 10' - 15'. Groundwater at 10'
11	į					
12						
13				90		
14		,		i 		
15]			End of Boring

C,	$\overline{\mathbf{e_g}}$	CH Dril	ASE ENVIF	ial Action Con	stractors	Soil Boring Log Page 1 of 1
			South Poplar,			
Projec				as & More		Boring Location: FP-2
Date D			9/4/2013		· · · · · · · · · · · · · · · · · · ·	Sampling Method: 2" x 5' Liners
	ompleted:		9/4/2013			Surface Elevation: NA
	Method:			KPL2 (Auge	ers)	Total Depth (ft): 10
Drillin	g Company	<i>/</i> :	Earth Sen	/ices		Geologist: Marvin Johnson
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1				; 		0-1': Topsoil
2						1' - 11': Firm brown silty clay.
3				100		
4						
5						
6						
7				100		
9						
10						
11						
12						11' - 15': Moist gray sandy clay
13				90		
14						
15			<u> </u>	<u></u>		End of Boring

		СН	ASE ENVIE	RONMENTA	AL GROUP	, INC.
	eσ	. Dril	lling & Remed	ial Action Co	ntractors	Soil Boring Log Page 1 of 1
	<u></u>	418	South Poplar,			
Projec				as & More	:	Boring Location: FP-3
Date D			9/4/2013			Sampling Method: 2" x 5' Liners
	ompleted:		9/4/2013	WD1 2 /A		Surface Elevation: NA
	Method: Company		Earth Sen	KPL2 (Aug	ers)	Total Depth (ft): 10 Geologist: Marvin Johnson
			1		-	Geologist. Mai viii soiirisoii
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1*: Topsoil
2						1' - 10': Firm brown silty clay to moist, soft brown silty clay
3				100		
4						
5						Obvious petroleum odor 5' - 10'
6						
7				100		
8						
9 10						
11	·					10' - 15': Firm brown silty clay
12		:				
13				100		
14						
15						End of Boring
	į	i	i			
			L			<u> </u>

APPENDIX D Well Completion Forms

Co_		NVIRONMENT		, INC.	W-II C	1-4' P 2 4 -4 -4	
- Cg	•	emedial Action Col			Well Completion Form Page 1 of 1		
<u> </u>	418 South Po	pplar, Centralia, Illin	iois 62801				
Project:		r <u>'s Gas & More</u>	2		Well Location:	RW-1	
Date Drilled:	9/3/20	013			Driller:		
Date Completed:	9/3/20	013			Incident #:	951012	
Drilling Method:	Kinema	atics KPL-2 (Aug	gers)		Drilling Fluids:	None	
Drilling Company:	Earth	Services			Geologist:	Marvin Johnson	
Annular Space Det						Elevations - 0.01 ft 0.00 Top of Protective Casing	
Type of Surface Se			Concrete Bentonite			-0.25 Top of Riser Pipe	
	pe of Annular Sealant:			<u> </u>		0.00 Ground Surface	
Type of Bentonite			Granular			0.50 Top of Annular Sealant	
Type of Sand Pack:			Filter			Casing Stickup	
Well Construction	Materials	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type			
		<u>~~~~</u>		Ļ,			
Riser Coupling Join			4"				
Riser Pipe Above V			4"		100 mm		
Riser Pipe Below V	/.T.		4"				
Screen			4"				
Coupling Joint Scre	en to Riser		4"			4.00 Top of Sand	
Protective Casing		12"					
Measurements Riser Pipe Length Screen Length Screen Slot Size		to 0.01 ft	4.75 10 0.01	plicable)		-5.00 Top of Screen	
					I H I		
Protective Casing L	ength (inches)		12		H		
Depth to Water			13.85				
Elevation of Water							
ree Product Thick			0			Total Screen Interval	
Gallons Removed (0.5		$ \downarrow \downarrow $		
Gallons Removed (1				
Surveyed Flush Mo			0				
Borehole Diameter	(inches)		8.25"				
Survey Information	Depth to Water (ft)	Elevation of Water (ft)	1	yor or Ipler		-15.00 Bottom of Screen -15.00 Bottom of Borehole	
1	***************************************		3411				
2	+	 			Drawing not t	to scale	
۷ ا	+	-	_		Drawing not t	LU SLAIC	
3	1	l					
3 4		ĭ —					

CHASE ENVI	RONMENTAL	L GROUP,	INC.		
Drilling & Reme	dial Action Contr	actors		Well Com	pletion Form Page 1 of 1
418 South Poplar	, Centralia, Illinoi	is 62801			` _
Project: Parker's	Gas & More			Well Location:	FP-1
Date Drilled: 9/4/2013	3			Driller:	
Date Completed: 9/4/2013				Incident #:	951012
	s KPL-2 (Auge	rs)		Drilling Fluids:	None
Drilling Company: Earth Ser				Geologist:	Marvin Johnson
Annular Space Details					Elevations - 0.01 ft 0.00 Top of Protective Casing
Type of Surface Seal:	1	Concrete			-0.25 Top of Riser Pipe
Type of Annular Sealant:	8	Bentonite			0.00 Ground Surface
Type of Bentonite Seal:	(Granular	_		-0.50 Top of Annular Sealant
Type of Sand Pack:		Filter			Casing Stickup
Well Construction Materials	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type		Top of Seal Total Seal Interval
Riser Coupling Joint	+	2"			
Riser Pipe Above W.T.		2"		### ###	
Riser Pipe Below W.T.	+	2"			
Screen	 	2"			
Coupling Joint Screen to Riser	+	2"			-4.00 Top of Sand
Protective Casing	12"				rop or saile
Measurements Riser Pipe Length Screen Length	to 0.01 ft (v	4.75 10	olicable)		5.00 Top of Screen
Screen Slot Size		0.01			
Protective Casing Length (inches)		12			
Depth to Water		7.8			
Elevation of Water	+			1	10.00
Free Product Thickness	<u> </u>	0		1 1	10.00 Total Screen Interval
Gallons Removed (Developed)	1	2		$ \vdash \vdash $	
Gallons Removed (Purged)	 	4			
Surveyed Flush Mount Elevation	-	0 25"			
Borehole Diameter (inches)		8.25"			
l Date I ' I	levation of	Survey	or or		-15.00 Bottom of Screen -15.00 Bottom of Borehole
Water (ft)	Water (ft)	Samı	pler	_	
1					
2				Drawing not	t to scale
3					
4					
				Completed by:	Marvin Johnson

CHASE ENV	TRONMENTA	L GROUP,	INC.	T ,, a	
Drilling & Rema	redial Action Conti	iractors		Well Compl	etion Form Page 1 of 1
	ar, Centralia, Illino	ois 62801			
,	Gas & More			Well Location:	FP-2
Date Drilled: 9/4/201	.3			Drill <u>er:</u>	
Date Completed: 9/4/201	.3			Incident #:	951012
Drilling Method: Kinemati	ics KPL-2 (Auge	ers)		Drilling Fluids:	None
Drilling Company: Earth Se				Geologist:	Marvin Johnson
Annular Space Details					Elevations - 0.01 ft 0.00 Top of Protective Casing
Type of Surface Seal:		Concrete		<u></u>	-0.25 Top of Riser Pipe
Type of Annular Sealant:		Bentonite		I — I	0.00 Ground Surface
Type of Annular Sealant:		Granular			-0.50 Top of Annular Sealant
Type of Bentonite Seai: Type of Sand Pack:	+	Filter		! !	Casing Stickup
Type of Saria Fack.		Fines			
Well Construction Materials	<u> </u>	<u> </u>	و ا		Top of Seal
	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type		2.00 Total Seal Interval
Riser Coupling Joint	+	2"			
Riser Pipe Above W.T.	+	2"			
Riser Pipe Below W.T.	+	2"			
Screen	+	2"			
Coupling Joint Screen to Riser	+	2"			-4.00 Top of Sand
Protective Casing	12"		 	Hillandia da Motarria	Top of all and a second
Measurements Riser Pipe Length	to 0.01 ft (4.75	plicable)		5.00 Top of Screen
Screen Length		10			
Screen Slot Size	<u> </u>	0.01			
Protective Casing Length (inches)	<u>T</u>	12			
Depth to Water	$T_{\underline{}}$	14.62			
Elevation of Water	<u> </u>				
Free Product Thickness	Τ	0		ΙЦΙ	10.00 Total Screen Interval
Gallons Removed (Developed)	<u> </u>	0.5		l ∐ [
Gallons Removed (Purged)				1 📙 📗	
Surveyed Flush Mount Elevation		0		1 📙	
Borehole Diameter (inches)		8.25"			
Survey Information	Elevation of	Curve	eyor ar		-15.00 Bottom of Screen -15.00 Bottom of Borehole
I I Date I i I	Water (ft)	1		<u> </u>	-13.00 Bottom 5. 30.3
water (ft)	Water (14)	38111	npler		
1				Decision not t	4_
2				Drawing not t	o scale
3					
4					
				Completed by:	Marvin Johnson

	$\mathbf{e}_{\mathbf{g}}$	Drilling & R	NVIRONMENTA emedial Action Cor	tractors	Well Completion Form Page 1 of 1			
Projec	<u> </u>		plar, Centralia, Illin r's Gas & More	-		Well Location: FP-3		
	orilled:	9/4/2		:		Driller:	17-5	
	Completed:					Incident #:	951012	
		9/4/2						
	g Method:		atics KPL-2 (Aug	ers)		Drilling Fluids:	None	
Drillin,	g Company:	Earth	Services			Geologist:	Marvin Johnson	
Annul	ar Space Deta	ils					Elevations - 0.01 ft 0.00 Top of Protective Casing	
Type	of Surface Sea	ıl•		Concrete			-0.25 Top of Riser Pipe	
	of Annular Sea			Bentonite			0.00 Ground Surface	
	ype of Bentonite Seal:			Granular			-0.50 Top of Annular Sealant	
	of Sand Pack:	icai.		Filter		F F		
iype c	or Sanu Pack:			riiter			Casing Stickup	
Well C	Construction N	Materials						
			s Steel Type	C Type	er Type		Top of Seal	
			Stainless Steel Specify Type	PVC Specify Type	Other Specify Type		2.00 Total Seal Interval	
Riser (Coupling Joint	:		2"				
	Pipe Above W			2"				
	Pipe Below W			2"				
Screer	•			2"	 			
	ing Joint Scree	en to Riser		2"	 		-4.00 Top of Sand	
	ctive Casing	in to miser	12"		 		Top or Sand	
	urements		to 0.01 ft	(where ap	plicable)		5.00 Top of Screen	
	n Length			10				
	n Slot Size		1	0.01				
		ength (inches)	1	12				
_	to Water	- G (merica)		11.61				
 			 			$\mid H \mid$		
Elevation of Water				0		$\mid H \mid$	10.00 Total Screen Interval	
Free Product Thickness				1.5		\downarrow \vdash \vdash	Total Screen interval	
Free P	s Removed (I		-			$ \vdash \mid $		
Free P Gallon	Gallons Removed (Purged)			2.5 0				
Free P Gallon Gallon		Surveyed Flush Mount Elevation				i LLI I		
Free P Gallon Gallon Survey	yed Flush Moi			0.000				
Free P Gallon Gallon Survey				8.25"				
Free P Gallon Gallon Survey Boreh	yed Flush Moi	(inches)					15.00 Bottom of Screen	
Free P Gallon Gallon Survey Boreh	yed Flush Moi ole Diameter		Elevation of Water (ft)	Surve	yor or		-15.00 Bottom of Screen -15.00 Bottom of Borehole	
Free P Gallon Gallon Survey Boreh Survey	yed Flush Mor ole Diameter y Information	(inches) Depth to		Surve	· I			
Free P Gallon Gallon Survey Boreh Survey	yed Flush Mor ole Diameter y Information	(inches) Depth to		Surve	· I	Drawing not t	-15.00 Bottom of Borehole	
Free P Gallon Gallon Survey Boreh Survey	yed Flush Mor ole Diameter y Information	(inches) Depth to		Surve	· I	Drawing not to	-15.00 Bottom of Borehole	
Free P Gallon Gallon Survey Boreh Survey	yed Flush Mor ole Diameter y Information	(inches) Depth to		Surve	· I	Drawing not to	-15.00 Bottom of Borehole	

APPENDIX E Property Owner Notification

Suggested letter template for use by site owner/operator or remediation applicant to satisfy the requirements of 742.1015(c):

NOTICE

[Date, etc.]

Dear [Affected Property Owner] [Unit of Local Government]:

[Name of party requesting to use the groundwater ordinance] is performing an environmental response action at [name and address of site (not a P.O. Box)]. The response action is being performed because [state the nature of the release]. The response action consists of [describe the nature of the response action].

To protect human health, Illinois regulations require that <u>Iname of party requesting to use the groundwater ordinance</u>] either clean up groundwater contamination or demonstrate that the groundwater in the area of the release will not be used as potable water. (Groundwater is the water beneath the ground stored in the pores of soil and rock; some communities and homeowners pump this water out of wells to supply potable water. Potable means fit for human consumption including drinking, bathing, preparing food, washing dishes, and so forth.)

The <u>[name and address of unit of local government that adopted the ordinance]</u> has an ordinance that strictly prohibits the human and domestic consumption of the groundwater beneath your property. Under Illinois regulations, a local ordinance that effectively prohibits the installation and use of potable water supply wells may be used as an institutional control to allow contamination above the groundwater ingestion remediation objectives to remain in the groundwater (35 Illinois Administrative Code 742.1015). (An institutional control is a legal mechanism for imposing a restriction on land use.) The Illinois Environmental Protection Agency (Illinois EPA) has determined that the ordinance adopted by <u>[name of unit of local government]</u> meets the regulatory requirements for use as an institutional control. <u>[Name of party requesting to use the groundwater ordinance]</u> has requested and has been granted approval from the Illinois EPA to use the groundwater ordinance as an institutional control.

Your property, <u>[legal description, reference to a plat showing boundaries of the property, or accurate street address]</u>, is included in the area affected by the ordinance. This means that you cannot install or use a private, potable water well on your property. Based on the remediation objectives established in reliance on this ordinance, groundwater beneath your property may not be suitable for human or domestic consumption. Illinois regulations require that you be notified of these facts.

The ordinance is identified as <u>[ordinance number or citation to unit of local government's municipal code]</u>. If you wish to obtain a copy of the ordinance, please contact <u>[unit of local government, address, and telephone number]</u>. To learn more about <u>[name of site]</u>, please contact either <u>[name of party requesting to use the groundwater ordinance, address, and telephone number]</u> or the Illinois EPA, Bureau of Land project manager, <u>[assigned project manager, address, and telephone number]</u>. You may also obtain a copy of the complete Illinois EPA file on <u>[name of site]</u>. To do so, you will need to submit a written request with your signature to the Freedom of Information Act (FOIA) Officer, Illinois EPA, Bureau of Land, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276. When requesting a copy of the file, please reference the file heading shown below:

[LPC Number—County City/Site Name Site Address Site Number]

FOIA requests may also be requested through the Illinois EPA's Web page www.epa.state.il.us/foia.

Sincerely,

[Name of party requesting to use the groundwater ordinance]

APPENDIX F Budget



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC#: (0010105006	County:	Adams	
City: Cla	ayton	Site Name:	Parker's Gas & More	
Site Addı	ress: 101 East Outer Belt Drive			
IEMA Inc	cident No.: 951012			
IEMA No	otification Date: 5/12/1995			
Date this	form was prepared: 01/13/2015			
This for	m is being submitted as a (check o	ne, if applicable	e):	
\boxtimes	Budget Proposal			
	-			
	Budget Amendment (Budget amend	ments must incl	ude only the costs ove	r the previous budget.)
	Billing Package			
	Please provide the name(s) and dat	te(s) of report(s)	documenting the cost	s requested:
	Name(s):			
	Date(s):			
This so	ckage is being submitted for the sit		cated below:	
rins pa	ckage is being submitted for the sit	e acuvities illui	cated below.	
35 III. A	dm. Code 734:			
	Early Action			
\boxtimes	Free Product Removal after Early A	ction		
	Site Investigation	Stage 1: 🔲	Stage 2:	Stage 3:
\boxtimes	Corrective Action	Actual Costs		
35 III. Ad	dm. Code 732:			
	Early Action			
	Free Product Removal after Early A	ction		
	Site Classification			RECEIVED
	Low Priority Corrective Action			
	High Priority Corrective Action			FEB 2:0 2015
35 III. Ad	dm. Code 731:			IEPA/BOL
	Site Investigation			
	Corrective Action			

IL 532 -2825 LPC 630 Rev. 1/ 2007

Electronic Filing: Received, Clerk's Office 10/23/2020 General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Parker's	Gas & More				
Send in care of: Chase Envir	onmental Group	o, Inc.			
Address: PO Box AB					
City: Centralia		State: I		Zip: 6	2801
The payee is the: Owi	ner 🛛 Op	erator 🏻	(Check o	ne or both.)	
Ten Pane				W-9 must b	e submitted.
Signature of the owner or opera	itor of the UST(s) (required)			print off a W-9 Form.
Number of petroleum USTs in parent or joint stock company o or joint stock company of the o Fewer than 101:	of the owner or owner or owner or operato	perator; and	erated by ti any compa	ne owner or operatiny owned by any p	or; any subsidiary, parent, subsidiary
Number of USTs at the site: 6 have been removed.) Number of incidents reported to 1 Incident Numbers assigned to 1	o IEMA for this s	site: <u>1</u>	1107	USTs presently at	the site and USTs that
Please list all tanks that have e	ver been located	d at the site a	and tanks th	at are presently lo	cated at the site.
Product Stored in UST	Size (gallons)	Did US a rele		Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	6,000	Yes 🗌	No 🖂		
Gasoline	6,000	Yes 🗌	No 🖂		
Gasoline	4,000	Yes ⊠	No 🗌	951012	Piping Leak
Gasoline	4,000	Yes 🛛	No 🗌	951012	Piping Leak
Diesel	4,000	Yes 🛛	No 🗌	951012	Piping Leak
feating Oil	500	Yes 🗌	No 🗌	Pre-1974	
		Yes 🗌	No 🗌		
		Yes 🗌	No 🗌		
		Yes 🗍	No 🗌		

Add More Rows

Undo Last Add

0194

Budget Summary

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 13,312.76
Analytical Costs Form	\$	\$	\$	\$	\$ 48,073.3°
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$ 510,844.4
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 23,030.2
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 93,009.98
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 20,976.00
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 709,246.73

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
14	PUSH	10.00	140.00	Overburden Soil Investigation
3	HSA	15.00	45.00	Free Product Observation Wells FP-1 thru FP-3
1	HSA	15.00	15.00	4" Recovery Well RW-1
8	HSA	15.00	120.00	Proposed Post-Abatement Monitoring Wells
1	PUSH	15.00	15.00	Collection of Waste Profile Soil Sample (Drilling Event)

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	180.00	27.94	5,029.20
Total Feet via PUSH:	155.00	21.87	3,389.85
Total Feet for Injection via PUSH:	-		
,		Total Drilling Costs:	9,548.81

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
11	HSA	2.00	15.00	165.00
1	4" or 6" Recovery	4.00	15.00	15.00
			· · · · · · · · · · · · · · · · · · ·	

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	165.00	20.05	3,308.25
Total Feet via PUSH:			
Total Feet of 4" or 6" Recovery:	15.00	30.38	455.70
Total Feet of 8" or Greater Recovery:			
	·	Total Well Costs:	3,763.95

Total Drilling and Monitoring Well Costs:	\$13,312.76

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					·
BETX Soil with MTBE EPA 8260	127	X	103.26		\$13,114.02
BETX Water with MTBE EPA 8260	32	Х	98.41	=	\$3,149.12
COD (Chemical Oxygen Demand)		Х		=	
Corrosivity		Х	-	=	
Flash Point or Ignitability Analysis EPA 1010	2	X	40.08	=	\$80.16
Fraction Organic Carbon Content (foc) ASTM-D 2974-00		Х		=	
Fat, Oil, & Grease (FOG)		Х		=	
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734.Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)	2	X	17.00	=	\$34.00
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
рН	2	· X	17.00	=	\$34.00
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	127	X	184.66	=	\$23,451.82
Polynuclear Aromatics PNA, or PAH WATER EPA 8270	32	Х	184.66	=	\$5,909.12
Reactivity		Х		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		Х	1 1	=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		Х		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		Х		=	
		Х		=	
		X		=	
		X		=	
Geo-Technical Analysis					,,
Soil Bulk Density (pb) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		= '	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	X		=	
		Х		=	
		X	1	=	

Analytical Costs Form

Metals Analysis	,,,,,				
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	1	х	95.97	=	\$95.97
Soil preparation fee for Metals Total Soil (one fee per soil sample)		x		=	
Water preparation fee for Metals Water (one fee per water sample)	1	x	13.35	=	\$13.35
vvaice preparation recitor wetars vvaice (one reciper water sample)			,,,,,		
Arsenic TCLP Soil		Х		=	
Arsenic Total Soil		х		=	
Arsenic Water		х	•	=	
Barium TCLP Soil		Х	,	=	
Barium Total Soil		Х		=	
Barium Water		Х		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		х		=	
Cadmium Water		Х		=	
Chromium TCLP Soil		Х		=	
Chromium Total Soil		х		=	
Chromium Water		х		=	
Cyanide TCLP Soil		х		=	
Cyanide Total Soil		X		=	
Cyanide Water		х		=	4 - B
Iron TCLP Soil		х		=	
Iron Total Soil		х		=	
Iron Water		x		=	
Lead TCLP Soil	1	х	19.43	=	\$19.43
Lead Total Soil		х		=	
Lead Water	1	х	21.87	=	\$21.87
Mercury TCLP Soil		x		=	
Mercury Total Soil		х		=	
Mercury Water		х		=	
Selenium TCLP Soil	······································	X		=	
Selenium Total Soil		х		_	
Selenium Water		х		=	
Silver TCLP Soil		x		=	
Silver Total Soil		х		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		х		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		х		=	
()		X			
		x		=	
		x		=	
		X			
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	127	Х	12.15	=	\$1,543.05
Sample Shipping per sampling event ¹	10	x	60.74	_	\$607.40

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 48,073.31

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,230.00	69.25	\$362,177.50

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,230.00	24.30	\$127,089.00

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
2,175.00	7.91	\$17,204.25

B. Alternative Technology

Alternative Technology Selected:		
Number of Cubic Yards of Soil to	Be Remediated	
Total Non-Consulting Personnel	Costs Summary Sheet (\$)	
Total Remediation Materials Co.	sts Summary Sheet (\$)	
Total Cost of the System		

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)	

E. Drum Disposal

☐ Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
12	303.73	3,644.76
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
4	182.23	728.92
Total Drum Dispo	sal Costs	4,373.68

Total Remediation and Disposal Costs:	0540.044.40
Total Nomediation and Disposal Goda.	\$510,844.43

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
5,700.00	Asphalt	4.00	2.90		\$16,530.00

Total Concrete and Asphalt	\$16,530.00
Placement/Replacement Costs:	ψ10,000.00

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost (\$)	Total Cost (\$)
		<u> </u>

Total Building Destruction or Dismantling and	
Canopy Removal Costs:	

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost
MW1- MW5 (15' ea)	HSA	75.00	12.15	\$911.25
MW9 - MW18 (15' ea)	HSA	150.00	12.15	\$1,822.50
MW19 & MW20 (20' ea)	HSA	40.00	12.15	\$486.00
MW21 - MW26 (15' ea)	HSA	90.00	12.15	\$1,093.50
FP1 - FP3 (15' ea)	HSA	45.00	12.15	\$546.75
RW1	HSA	15.00	12.15	\$182.25
Proposed Wells Area A	HSA	30.00	12.15	\$364.50
Proposed Wells Area B	HSA	45.00	12.15	\$546.75
Prposed Well Area C	HSA	15.00	12.15	\$182.25
Proposed Wells Area D	HSA	30.00	12.15	\$364.50
· · · · · · · · · · · · · · · · · · ·				
		}		

Total Monitoring Well Abandonment Costs:	\$6,500.25
	L

Consulting Personnel Costs Form

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
				<u> </u>	
	ī	Senior Project Manager	8.00	121.49	\$971.92
CCAP	Negotiate acces	s to adjoining properties east (priva	te residential) a	nd south (City pa	ark)
<u> </u>		1		<u> </u>	
	T	Senior Project Manager	8.00	121.49	\$971.92
CCAP	Coordinate Aug	2013 overburden soil investigation	- 4,,, , , , , , , , , , , , , , , , , ,		
<u> </u>		Senior Project Manager	40.00	121,49	\$4,859.60
CCA-Field	Supervise/docui	ment overburden investigation and r	econditioning m	onitoring wells (4days x 10hrs ea)
		Senior Technician		<u> </u>	
	1	Serior recinicali	40.00	78.96	\$3,158.40
CCA-Field	Collect overbure	len samples, locate/recondiction mo	nitoring wells, s	ite mapping (4da	ays x 10hrs ea)
		Carrier Denient Monagos	<u> </u>	<u> </u>	
	Г	Senior Project Manager	50.00	121.49	\$6,074.50
FP-Field	Supervise/docui	ment free product investigation, rem	oval & monitoring	ng activites (5 da	ıys x 10hrs ea)
		Senior Project Manager	30.00	121.49	\$3,644.70
CCA-Field	Supervise/docui	ment Oct 2014 groundwater investig	ation (3 days x	10 hrs ea)	
		Canica Taskaisina		[
	Τ	Senior Technician	30.00	78.96	\$2,368.80
CCA-Field	Oct 2014 ground	dwater investigation: purge wells, co	illect groundwat	er samples (3 da	ays x 10 hrs ea)
		Senior Project Manager	4.00	121.49	\$485.96
FP-Design	Coordinate/sche	edule free product investigation, rem	oval & monitorir	ng activities	
		Senior Project Manager	4.00	121.49	\$4 85.96
CCAP	Coordinante/sch	redule Oct 2014 groundwater investi	igation activities		

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
	-		T	1 3	
		Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure contrac	dors/service providers for proposed	d overnurden rem	oval, soil abatem	ent & backfilling
		Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure access	& coordinate field activiteis with Pr	roperty Owners ar	nd contractors	
		Senior Project Manager	200.00	121.49	\$24,298.00
CCA-Field	Supervise/doc	ument overbum removal, soil abate	ement & backfilling	activities (20 da	ys x 10 hrs ea)
		Senior Technician	200.00	78.96	\$15,792.00
CCA-Field	Collect soil san	nples, prep. site map, coordinate w	vaste manifests, e	tc. during soil aba	atement activities
		Senior Project Manager	40.00	121.49	\$4,859.60
CCA-Field	Supervise/doc	Supervise/document post-abatement groundwater investigation activites (4 days x 10 hrs ea)			0 hrs ea)
,		Geologist III	40.00	121.49	\$4,859.60
CCA-Field	Post-abatemer	nt groundwater investigation: Log b	orings, screen soi	I, document well	construction, etc.
	,,,	Senior Project Manager	40.00	121.49	\$4,859.60
CCAP	Draft Jan 2015	CAP & Free Product Removal Rep	port	<u>'</u>	
		Senior Project Manager	20.00	121.49	\$2,429.80
CCAP-Budget	Prepare Jan 20	015 CAP & Free Product Removal I	Report Budget		
		Senior Prof. Engineer	3.00	157.94	\$473.82
CCAP	Review/certify	Jan 2015 CAP & Free Product Ren			

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
		·			
		Senior Prof. Engineer	3.00	157.94	\$473.82
CCAP-Budget	Review/certify J	an 2015 CAP & Free Product Remo	val Report Bud	get	
		Senior Draftperson/CAD	8.00	72.88	\$583.04
CCAP	Prepare maps/fi	gures included in Jan 2015 CAP & I	Free Product Re	emoval Report	
		Senior Admin. Assistant	6.00	54.67	\$328.02
CCAP	Prepare/submit	Jan 2015 CAP & Free Product Rem	oval Report to	O/O and IEPA	
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Revise contami	nant transport models			
		Senior Project Manager	16.00	121.49	\$1,943.84
НАА	Prepare/negotia	te HAA between O/O and IDOT			
		Senior Admin. Assistant	4.00	54.67	\$218.68
НАА	Prepare/submit	HAA to O/O and IDOT			<u>-</u>
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Identify Property	Owners requiring notification of gro	oundwater ordin	ance as Institution	nal Control
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Prepare Propert	y Owner Notification letters.			
		Senior Admin. Assistant	4.00	54.67	\$218.68
ELUC	Prepare/submit	notification letters to Property Owne	rs and City of C	layton	

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
To be the second				,	
	····	Senior Acct. Technician	40.00	66.81	\$2,672.40
CA-Pay	Prepare reimbu	rsement applications (estimate 2 a	pplications)		
		Senior Prof. Engineer	6.00	157.94	\$947.64
CA-Pay	Review/certify re	eimbursement applications (estima	te 2 applications))	
		Senior Admin. Assistant	12.00	54.67	\$656.04
CA-Pay	Prepare/submit	reimbursement applications to O/C) & IEPA (estimat	te 2 applications)
		1,		1	
			<u></u>		
***************************************				. "	
			T		
			<u></u>		
	 				
*Defer to the analicable Marinum	Daymont Asses	inte deciment	· · · · · · · · · · · · · · · · · · ·		
*Refer to the applicable Maximum	i Fayinent Amot	Total of Consultir	ag Personnel (Costs	\$93,009.98

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Metal Detector		3.00	65.00	Day	\$195.00
CCA-Field	Locate monitoring wells	for reconditioning in A	Aug 2013 & samı	oling in Oct	2014
Bailers		23.00	25.00	Each	\$575.00
CCA-Field	Recondition monitoring				
Bailers		4.00	25.00	Each	\$100.00
FP-Field	Free Product investigati		<u>_</u>		
Bailers		8.00	25.00	Each	\$200.00
CCA-Field	Proposed post-abateme	ent monitoring wells	· .		
Water Level Indicator		4.00	30.00	Day	\$120.00
CCA-Field	Locate monitoring wells Aug 2013 for reconditioning (2 personnel using 1 indica		indicator each)		
Water Level Indicator		4.00	30.00	Day	\$120.00
FP-Field	Free Product investigati	on, removal & monito	ring		
Water Level Indicator		2.00	30.00	Day	\$60.00
CCA-Field	Oct 2014 groundwater sample collection				
Water Level Indicator		2.00	30.00	Day	\$60.00
CCA-Field	Proposed post-abatement groundwater investigation				
Survey Equipment		1.00	150.00	Day	\$150.00
CCA-Field	Proposed post-abateme				

Electronic Filing: Received, Clerk's Office 10/23/2020 Time or Total Materials, Equipment, or Field Purchase Unit Rate (\$) **Amount Used** Cost **Description/Justification Remediation Category** 4.00 175.00 \$700.00 Vehide Day **CCA-Field** Overburden soil investigation and recondition monitoring wells (Aug 2013) Vehicle 5.00 175.00 Day \$875.00 FP-Field Free Product investigation, removal & monitoring \$525.00 Vehicle 3.00 175.00 Day Oct 2014 groundwater investigation CCA-Field Vehicle 20.00 175.00 Day \$3,500.00 CCA-Field Proposed overburden removal/replacement, soil abatement & backfilling \$700.00 4.00 175.00 Vehicle Day CCA-Field Proposed post-abatement groundwater investigation \$1,000.00 8.00 125.00 Night Hotel Overburden investigation & recondition monitoring wells (2 personnel x 4 nights) **CCA-Field** 5.00 125.00 \$625.00 Hotel Night FP-Field Free Product investigation, removal & monitoring 125.00 \$4,000.00 Hotel 32.00 Night CCA-Field Proposed overburden removal, soil abatement & backfilling (2 personnel x 16 nights)

\$1,000.00

125.00

Night

8.00

Proposed post-abatement groundwater investigation (2 personnel x 4 nights)

Hotel

CCA-Field

<u>Elec</u>	tronic Filing: Rece	<u>eived, Clerk's</u>	Office 10/2	<u>23/2020</u>	
Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description/	Justification		
Per Diem		10.00	42.00	Day	\$420.00
CCA-Field	Overburden investigation	n & recondition monit	toring wells (2 pe	rsonnel x 5	days w/travel)
Per Diem		6.00	42.00	Day	\$252.00
FP-Field	Free Product investigation				V
Per Diem		4.00	42.00	Day	\$168.00
CCA-Field	Aug 2014 groundwater s				
Per Diem		40.00	42.00	Day	\$1,680.00
CCA-Field	Proposed overburden re	L			
Per Diem		8.00	42.00	Day	\$336.00
CCA-Field	Proposed post-abateme	1			s w/travel)
Copies		3.00	30.00	Each	\$90.00
CCAP	January 2014 CAP/Free	Product Removal Re	eport for O/O (1 o	copy) & IEP/	A (2 copies)
Copies		2.00	30.00	Each	\$60.00
CA-Pay	Copies of reimbursement application for O/O & IEPA (1 each)				
Copies		3.00	30.00	Each	\$90.00
HAA	Copies of proposed HA				\$55.50
, DID		1.00	135.00	Day	€ 40E 00
PID CCA-Field	Overburden soil investigation		\$135.00		

Electronic Filing: Received, Clerk's Office 10/23/2020					
Materials, Equipment	, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
PID		2.00	135.00	Day	\$270.00
FP-Field	Free Product investiga	tion, installation of RW	-1 and FP-1 thru	FP-3	
PID		20.00	135.00	Day	\$2,700.00
CCA-Field	Proposed overburden	removal/replacement 8	soil abatement		
PID		2.00	135.00	Day	\$270.00
CCA-Field	Proposed post-abatem			Day	\$270.00
			·····		
				•	
		····		-	
		· · · · · · · · · · · · · · · · · · ·		<u></u>	
			<u> </u>		
		Total of Consultar	nt Materials Cos	ts	\$20,976.00

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

continuation For	m
I hereby certify that I intend to seek payment from the UST Fund for contributions for Leaking UST incident 951012 this budget are for necessary activities and are reasonable and accurately also certify that the costs included in this budget are not for corrective of 415 ILCS 5/57, no costs are included in this budget that are not descosts exceed Subpart H: Maximum Payment Amounts, Appendix D Sa Appendix E Personnel Titles and Rates of 35 III. Adm. Code 732 or 73 payment from the Fund pursuant to 35 III. Adm. Code 732.606 or 734.6 amendment. Such ineligible costs include but are not limited to:	action in excess of the minimum requirements or ibed in the corrective action plan, and no ample Handling and Analysis amounts, and
Costs associated with ineligible tanks. Costs associated with site restoration (e.g., pump islands, car Costs associated with utility replacement (e.g., sewers, electricosts incurred prior to IEMA notification. Costs associated with planned tank pulls. Legal fees or costs. Costs incurred prior to July 28, 1989. Costs associated with installation of new USTs or the repair of	rical, telephone, etc.).
Owner/Operator: Parker's Gas & More, Inc.	
Authorized Representative: Ted Parker	Title: President
Signature: Text Patr	Date: 2/10/15
Subscribed and sworn to before me the day of Seal:	OFFICIAL SEAL MAPVIN JOHNSON NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES: 08/02/15
In addition, I certify under penalty of law that all activities that are the sul conducted under my supervision or were conducted under the supervision or Licensed Professional Geologist and reviewed by me; that this plan, be prepared under my supervision; that, to the best of my knowledge and be or report has been completed in accordance with the Environmental Profession or 732 or 734, and generally accepted standards and practices of my profession accurate and complete. I am aware there are significant penalties for su to the Illinois EPA, including but not limited to fines, imprisonment, or bot Environmental Protection Act [415 ILCS 5/44 and 57.17]. L.P.E./L.P.G.: Kelly L. Tensmeyer L.P.E./L.P.G.: Kelly L. Tensmeyer	on of another Licensed Professional Engineer oudget, or report and all attachments were belief, the work described in the plan, budget, tection Act [415 ILCS 5], 35 III. Adm. Code ession; and that the information passented is ubmitting false statements of representations that as provided in Sections 44 and 57.17 of the
L.P.E./L.P.G.: Kelly L. Tensmeyer L.P.E./L.F L.P.E./L.P.G. Signature: Kelly L. Tersman	Date: 2-12-13
Subscribed and sworn to before me the day of FCDT (Notary Public)	OFFICIAL SEAL GINA L GOODIEL NOTARY PUBLIC STATE OF ILLUNCIS

The Illinois EPA is authorized to require this information under 415 ILCS 5/4. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

0211

MY COMMISSION EXPIRES JAN 29 2017

1805053 - NIW



Office of the Illinois State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

RECEIVED AMENDED

JUL 2 3 2007

July 18, 2007

BY: _ &____

Parker's Gas and More P.O. Box 236 Clayton, IL 62324

In Re:

Facility No. 5-013158 IEMA Incident No. 95-1012 Parker Gas-N-More, Inc. 101 E Outerbelt Dr., Hwy. 24 P.O. Box 236 Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 3 4,000 gallon Gasoline

Tank 4 4,000 gallon Gasoline

Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

- 1. Neither the owner nor the operator is the United States Government,
- 2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
- 3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
- 7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk Illinois Pollution Control Board State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 (312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline Tank 2 6,000 gallon Gasoline Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

Deanne Lock

Administrative Assistant

Division of Petroleum and Chemical Safety

cc:

IEPA

Facility File

RECEIVED
FEB 2.0 2015
IEPA/BOL



Electronic Eiling: Received Clerk's Office 10/23/2020 AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829

BRUCE RAUNER, GOVERNOR

LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

7013 2630 0001 4708 4606

MAY 2 0 2015

Parker's Gas & More, Inc. Attn: Ted Parker 2970 N 2050th Avenue Clayton, Illinois 62324

Re:

LPC #0010105006 -- Adams County Clayton/Parker's Gas & More, Inc.

101 East Outer Belt Drive

Leaking UST Incident No. 951012

Leaking UST Technical File

IEPA - DIVISION OF RECORDS MANAGEM**ENT** RELEASABLE

JUN 1 1 2015

REVIEWER EAV

Dear Mr. Parker:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated February 13, 2015, was received by the Illinois EPA on February 20, 2015. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the total budget is approved for the amounts listed in Attachment A. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

Page 2

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 III. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

If you have any questions or need further assistance, please contact Valerie Davis at 217/785-7492.

Sincerely,

Thomas A. Henninger

Unit Manager

Leaking Underground Storage Tank Section.

Division of Remediation Management

Bureau of Land

TAH:vad\

Attachments: A

c: Chase Environmental Group Inc.

BOL File

Attachment A

Re: LPC #0010105006 -- Adams County Clayton/Parker's Gas & More, Inc.

101 East Outer Belt Drive

Leaking UST Incident No. 951012

Leaking UST Technical File

SECTION 1

The budget was previously approved for:

\$ 53,505.88	Investigation Costs
\$101,855.01	Analysis Costs
\$ 92,472.08	Personnel Costs
\$ 64,193.44	Equipment Costs
\$398,631.35	Field Purchases and Other Costs

As a result of review of the budget at-hand, the following amounts are approved:

\$ 13,312.76	Investigation Costs
\$ 48,073.31	Analysis Costs
\$ 93,009.98	Personnel Costs
\$ 20,976.00	Equipment Costs
\$533,874.68	Field Purchases and Other Costs

Therefore, the total cumulative budget is approved for:

\$ 66,818.64	Investigation Costs
	<u> </u>
\$149,928.32	Analysis Costs
\$185,482.06	Personnel Costs
\$ 85,169.44	Equipment Costs
\$932,506.03	Field Purchases and Other Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.8(f) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 732.607.

Electronic Filingit Received and State 10/23/2020

Reviewer:	Melissa Owens	Queue Date: _ Subject to Program:	8/16/18 734	Initial Re	eview Date:	9/28/18
LPC # & County:	0010105006 / Adams	oubject to ringram	704	PM: Da	avie	
Site Name:	Clayton / Parker's Gas & Mo	are Inc		1 101.	1413	
LUST IncidentClaim #			ling Period:	12/1/17	to	6/30/18
LOST Incident-Claim #	93101209308	ы	iing Fenou.	12/1/11		0/30/16
Early Action:		Low Priority: _	······································	High Priority:		_
Free Product:	Site Invest.:_	Correc	tive Action:	xxxxxxx		
Amount requested for	Corrective Action:			577,244.	80	-
SUB TOTAL:				\$577,244	.80	
Less: STANDARD DEL	DUCTIBLE:			met		=
Less: DEDUCTIONS:						
rem and disp-adj backfil	l for material that was provide	ed free of charge		(3,755.4	12)	
cons mat-grass seed no	t approved in budget and exc	ceeds min req and not re	asonable	(563.82	2)	
•	•					
SUMMARY D				_		
NFR DATE		T	Б	#E70 00F	- =-0	
OPT-IN DAT		Total Amoun	: Due;	\$572,925	.56	
Payee:	Ted Parker		Facility:	Parker's Gas & I	More, Inc.	
Attention:	c/o Chase Environmental G	roup, Inc.	Address:	101 East Outer I	3elt Drive	
				Clayton, IL 6232	24	
Address:	2701 East Ash		County:	Adams		
City/St./Zip:	Springfield, IL 62703					0218

TO:	Greg Dunn			Initia	al Review Date:	9/28/18	
FROM:	Melissa Owens			Pi	oject Manager:	Davis	
				Subj	ect to Program:	734	
LPC # & County:	0010105006 / Adams		· ·				
Site City & Name:	Clayton / Parker's Ga	s & More Inc	.				
Site Address:	101 East Outer Belt D	Prive					
LUST Incident-Claim #	95101269508						
Queue Date: LUST / FISCAL FILE	8/16/2018						
The above referenced	facility's consultants/co	ontractors su	ıbmission regard	ling invoices an	d billings has bo	een reviewed.	
The consultant/contrac	tor in this billing packa	ge is:	Chase Environm	nental Group, In	C.		
Queue Date:	8/16/18				120 Day Date:	12/14/18	
Quede Date.				Revised	120 Day Date:		
IEMA:	5/12/95			52 D:	ays After IEMA:	7/3/95	
OSFM:					45 Day Report:		
F.P. Discovered:				Free Product w		•	
E.A. Ext Date:				te of Site Class.			
NFR Date:				e of Site Invest.			
Opt-In Date:			Or Stage o	of Site Invest. wo	ork being billed:		
Opt-In as New Owner:							
# of Eligible Tanks:	3	Tank Size	2-4,000 gasoline	a 4 000 diasal			
Tank Pull:		Planned:	2-4,000 gasonne	s, 4,000 diesei	Not Planned:		
raint i uii.	·	r lannica.			Not Figure Ca.		
The Billing Period for	this claim covers:		12/1/17	to	6/30/18	-	
The Amount Request	<u>ed</u> in this billing packa	ge is:	_	\$577,244.80	-		
The Budget Amount A	Approved for this site	is:	_		_		
The Deductible Appli	ed to this billing packa	ge is:	_	met	<u>.</u>		
Early Action:		Site Class.:		Low Priority:		High Priority:	
Free Product:		Site Invest.:		Co	rrective Action	XXXXXXX	
MANDATORY DOCU							
<u>x</u>	1. Payment Certification Form.						
<u> </u>	2. Owner/Operator 8		al Engineer/Geol	ogist Billing Ce	tification Form.		
<u>x</u>	3. Private Insurance		=	-			
<u>s</u>	4. Federal Taxpayer	Identificatio	n Number &/or V	V-9 Form(s):			
<u>x</u>	5. Copy of OSFM Eli	igibility / Dec	luctibility Letter.				

(Comments on Page 2)

6. Women / Minority Business Enterprise Form.

X

\$0.00 \$709,246.73

\$0.00

\$1,383,815.96

Project Manager: Davis LUST Incident #: 951012 Clayton/Parker's Gas & More, Inc. LUST Site City & Name: Phase of Work being billed for: SC LP XXXXXXXXXXXXX HP SI CA APPROVED BUDGET AMOUNTS: Approved Costs | Amendment #1 | Amendment #2 | Amendment #3 | Amendment #4 | Amendment #5 | Approved Cumulative Budget Line Items 5/14/09 5/20/15 Date of Approved Budget 2/22/01 3/13/07 9/27/07 1. Investigative Costs: 29.020.00 13,419.68 0.00 11,066.20 13,312.76 \$66,818.64 51,045.00 23,465.99 11,206.96 16,137.06 48,073.31 \$149,928.32 2. Analysis Costs: 3. Personnel: 53,475.00 14,744.88 3,038.49 21,213.71 93,009.98 \$185,482.06 61,275.00 1,222.96 20,976.00 \$85,169.44 4. Equipment: 0.00 1,695.48 5. Field Purchases & Other: 397,076.00 172.30 211.40 1,171.65 533,874.68 \$932,506.03 \$15,195.57 6. Handling Charges: 15,195.57

AMOUNTS PER CLAIM APPLIED TO APPROVED BUDGET LINES:

Totals

\$607,086.57

Billing Line Items	Billing #1	Billing #2	Billing #3	Billing #4	Billing #5	Billing #6
Date of Billing	4/11/01	1/23/06	2/22/06	3/15/06	6/26/06	3/5/07
Investigative Costs:	21,442.50	0.00	0.00	0.00		0.00
2. Analysis Costs:	8,862.50	0.00	0.00	7,800.00		0.00
3. Personnel:	17,782.50	4,315.50	9,034.50	5,246.75	4,253.00	6,275.73
4. Equipment:	1,100.00	310.00	1,100.00	790.00	60.00	0.00
5. Field Purchases & Olher:	1,431.60	0.00	112,281.37	73,229.49	612.57	406.76
6. Handling Charges:	2,110.20	0.00	1.24	76.09	73.50	30.91
Totals	52,729.30	4,625.50	122,417.11	87,142.33	4,999.07	6,713.40

\$53,025.81 \$14,456.85

"HC to be determined at time of billing package review.

Billing Line Items	Billing #7	Billing #8	Billing #9	Billing #10		Billing #12
Date of Billing	10/12/07	3/18/08	12/4/07	9/2/08	3/3/10	11/16/10
Investigative Costs:	0.00	1,830.37	0.00	3,600.00	534.52	11,518.94
2. Analysis Costs:	0.00	5,986.70	0.00	6,789,52	16,322.59	641.87
3. Personnel:	0.00	6,483.01	4,884.33	11,784.34	19,227.61	3,184.81
4. Equipment:	0,00	169.56	0.00	927.44	1,335.96	729.56
5. Field Purchases & Other:	206.25	593.40	823.80	1,223.90	809.00	175.21
6. Handling Charges:	0.00	277.31	96.81		462.05	0.00
Totals	206.25	15,340.35	5,804.94	24,325.20	38,691.73	16,250.39

AMOUNTS PER CLAIM APPLIED TO APPROVED BUDGET LINES:

Billing Line Items	Billing #13	Billing #14	Billing #15	Billing #16	Billing #17	Billing #18	Billing Cumulative
Date of Billing	7/9/15	8/16/18					
Investigative Costs:	5,976.40	0.00					\$44,902.73
2. Analysis Costs:	10,081.74	18,006.06	1				\$74,490.98
3. Personnel:	34,612.18	43,406.68					\$170,490.94
4. Equipment:	5,283.18	1,705.38					\$13,511.08
5. Field Purchases & Other:	1,488.85	499,315.29				I	\$692,597.49
6. Handling Charges:	1,739.17	10,492.15					\$15,359.43
Totals	59,181.52	572,925.56	0.00	0.00	0.00	0.00	\$1,011,352.65

BILLING TO BUDGET DIFFERENTIALS:

Budget/Billing Line Items		 		Line Item Differences
1. Investigative Costs:				\$21,915.91
2. Analysis Costs:				\$75,437.34
3. Personnel:				\$14,991.12
4. Equipment:				\$71,658.36
Field Purchases & Other:				\$239,908.54
6. Handling Charges:				(\$163.86)

Handling Charges Form

Subcontract or Field Purchase Cost:

Eligible Handling Charges as a Percentage of Cost:

\$0 - \$5,000 \$5,001 - \$15,000 \$15,001 - \$50,000 \$50,001 - \$100,000 \$100,001 - \$1,000,000 12% \$600 + 10% of amt. over \$5,000 \$1,600 + 8% of amt. over \$15,000 \$4,400 + 5% of amt. over \$50,000 \$6,900 + 2% of amt. over \$100,000

Subcontractor Name or Field Purc	hase Type of Work Performed by Subcontractor	Subcontractor or Field Purchase Amount (\$)
PDC lab	CA samples	17,500.58
Hickory Ridge Landfill	Contaminated soil disposal	131,979.67
Beaird Trucking	Trucking services	91,058,00
Central Stone Company	Backfill	38,609.06
Corp Production	Backfill	460.00

	Total Subcontractor and Field Purchase Costs:	\$279,607.31

	Total Handling Charges:	\$10,492.15
--	-------------------------	-------------

6,900.00 3,592.15 Clinard Ready Mix, Inc. P. O. Box 112 Mt. Sterling, IL 62353 217-773-3965

October 5, 2018

To Whom It May Concern:

Chase Environmental Group received 26 loads of washout rock on May 9 to the 11th. No charge for material. No scale available on site was weighed at Corp Product Services.

Respectfully,

Dave Clinard

Owens, Meli	ssa
From: Sent: To: Subject: Attachments:	Matthew Rives <mrives@chaseenv.com> Tuesday, October 02, 2018 5:23 PM Owens, Melissa Re: [External] Re: Parker's Gas & More 951012 corrective action claim Clayton billing cert.pdf; Clayton Handling corrected.pdf; Clayton corp rept invoice.pdf; clayton lab and checks .pdf; clayton backfill tickets.pdf</mrives@chaseenv.com>
/ 1.	After looking at this again and checking with Brian, please provide a new Owner/Operator and Licensed Professional Engineer/ Geologist Billing Certification Form. You don't need a new signature from the owner/operator. Just provide a new signature for the engineer (you). Attached
2.	Can you please walk me through how you arrived at \$21,805.33 for PDC lab on the handling form? Also, if your detail includes \$4,449.30, is proof of payment included somewhere for that? Should only be \$17,500.58. Lattached corrected Handling form. Also attached all lab invoices and checks highlighted. Also, is proof of payment for \$460 for Crop Production included? This is a Invoice /reciept we paid with credit card highlighted on invoice attached.
3.	I asked Brian about this, and we looked at the documentation. We can't figure out how you arrive at 5,244.91 cubic yards for backfill. Can you please walk me through it? Sorry, I didn't included all ticket I have attached for your review. 5,175.67 cyds was removed and EPA allows removed * 1.05 = 5434.45 cyds (which was never budgeted for in original plan). On the total remediation and disposal budget we are still under budget by \$7,773.72. Instead of having to send in a budget amendment and another reimbursement please have Brian move the budget numbers around in this section to make it work on your end, he can subtract the extra disposal costs we didn't use and add to the backfill cost.
lf you	have anything else let me know.
Quoting "Ower	ns, Melissa" < <u>Melissa.Owens@illinois.gov</u> >:
Hi Matt,	
Thanks for you	ur response.

1. After looking at this again and checking with Brian, please provide a new Owner/Operator and Licensed Professional Engineer/ Geologist Billing Certification Form. You don't need a new signature from the owner/operator. Just provide a new signature for the engineer (you).

Handling Charges Form



Subcontract or Field Purchase Cost:

Eligible Handling Charges as a Percentage of Cost:

\$0 - \$5,000 \$5,001 - \$15,000 \$15,001 - \$50,000 \$50,001 - \$100,000 \$100,001 - \$1,000,000

12% \$600 + 10% of amt. over \$5,000 \$1,600 + 8% of amt. over \$15,000 \$4,400 + 5% of amt. over \$50,000 \$6,900 + 2% of amt. over \$100,000

mot of payment movided

Subcontractor Name or Field Purchase	Type of Work Performed by Subcontractor	Subcontractor or Field Purchase Amount (\$)	
(4,449.30) PDC 1ab 5042.54, 2,372 96, 2,076.34, 3,559.54,	CA samples	21,805.33	-how did ?
Hickory Ridge Landfill	Contaminated soil disposal	131,979.67	7*)
Beaird Trucking 37,060 63,998	Trucking services	91,058.00	
Central Stone Company	Backfill	38,609.06	
Corp Production proof of payment	Backfill by what ched and	460.00	
	/'		
			·
		-	
Central Stone			
14,984.56			
13,530.84 \ 29,103.92 pro	of payment		
13,530.84 \ 29,103.92 pros 588.52) + 9,505, 14 pry	it of payment		
38,609.06 /	1 /		
/			
Total Sub	ocontractor and Field Purchase Costs:	\$283,912.06	
			

Total Handling Charges:

\$10,578.24

 Did you include the form for handling charges? I don't see it. I am sorry it looks like it was left out. I have included it for your review.
3. Can you please provide invoices for the purchase of the backfill? They were hidden behind all the material tickets, I have copied them and the checks for your review.
Quoting "Owens, Melissa" < Melissa. Owens@illinois.gov>:
Hi Matt,
I'm working on the above referenced claim, and I have some questions.
The Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form and Payment Certification Form have signature dates prior to the last day listed in the billing
period. If new forms aren't provided, we will need to cut costs incurred after June 19 th .
2. Did you include the form for handling charges? I don't see it.

Matthew D. Rives, P.E. Chase Environmental Group, Inc.

2701 E. Ash, Bldg. B Springfield, IL 62704 P: 217-670-1916 F: 217-670-1682

M: 217-851-1404

×

www.chaseenv.com

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Matthew D. Rives, P.E. Chase Environmental Group, Inc.

2701 E. Ash, Bldg. B Springfield, IL 62704 P: 217-670-1916 F: 217-670-1682

M: 217-851-1404

X

www.chaseenv.com

PRIVILEGED & CONFIDENTIAL: The information transmitted (including attachments) is covered by the electronic Communications Privacy Act, 18 U.S.C. 2510-2521, is intended only for the person(s) or entity/entities to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient(s) is prohibited. If you received this in error, please contact the sender and delete the material from any computer. Copyright 2012, Chase Environmental Group, All rights reserved.

Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form

Under penalty of perjury as defined in Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2], I certify to the following:

The bills in the attached application for payment are for performing corrective action activities

associated with Incident # 951012 reported for at Address: 101 East Outer Belt Drive	or the Leaking Underground Storage Tank site located
City: Clayton State:	IL Zip: 62324
The bills are for the billing period, were incurred in conformance with the Environmental P	through , and rotection Act and 35 III. Adm. Code 731, 732, or 734.
 The attached application for payment and all documents supervision of the licensed professional engineer or lice operator whose signatures are set forth below and in ac qualified personnel properly gathered and evaluated the attached application for payment is, to the best of my known 	ensed professional geologist and the owner and/or coordance with a system designed to assure that e information provided. The information in the
 The costs for remediating the above-listed incident are determined in accordance with Subpart H: Maximum Panalysis amounts, and Appendix E Personnel Titles an 	ayment Amounts, Appendix D Sample Handling and
 I am aware there are significant penalties for submitting EPA, including but not limited to fines, imprisonment, or Protection Act [415 ILCS 5/44] and Section 32-2 of the 0 	r both as provided in Section 44 of the Environmental
Owner/Operator Name: Parker's Gas & More	
Authorized Representative*: Ted Parker	
Address: 2970 North 2050th Avenue	Phone:
	Zip: 62324
Signature:	Date:
Subscribed and sworn to before me the day of	
	Seal:
(Notary Public)	million,
L.P.E./L.P.G. Name: Matthew Rives	L.P.E./L.P.G. Seal:
L.P.E./L.P.G. Illinois Registration No.: 062.069142	
L.P.E./L.P.G. Registration Expiration Date: Nov 30, 2019	L.P.E./L.P.G. Seal: LICENSUD PROFESSIONAL ENGINEER
Company Name: Chase Environmental Group, Inc.	OF MANY
Address: 2701 East Ash	Phone: (217) 670-1918 INOIS
City: Springfield State: IL	Zip: 62704
L.P.E./L.P.G. Signature:	Date: 10/7//8
Subscribed and sworn to before me the day of	,
<u> </u>	Seal:
(Notary Public)	

*For a corporation, a principal executive officer of at least the level of vice president, or a person authorized by a resolution of the board of directors to sign the applicable document if a copy of the resolution, certified as a true copy by the secretary of the corporation, is submitted with the document.

O227

CROP PRODUCTION SERVICES Disctronic Filing: Received, Clerk's Office 10/23/2020

MT STERLING IL (411) PO BOX 191 MT. STERLING, IL 62353 217-773-2012



INVOICE

Invoice #:

35890569 Invoice Date: 05/11/18 Cash On Delivery

Due Date: Order #:

Delivery Date: 05/11/18 11824791

PO#:

Sales Rep:

FLESNER, Andrew

CASH SALES MT STERLING (1027524) DO NOT MAIL **RT 24 WEST** MT STERLING, IL 62353

Ship Via: Customer Vehicle

County: BROWN

Product # Product Description	Quantity	Gross Unit Price	Gross Ext'd
1000184701 - MISC. CHARGE	460.0000		Sales Tax Price 460.00

Safety Data Sheets are available upon request for applicable products. Contact your local branch for details. No Recommendation has been made or provided by seller concerning the use of any pesticide covered by this invoice. For a medical emergency involving this product, call 1-866-944-8565. For help with any spill, leak, fire or exposure, call Chemtrec at 1-800-424-9300.

*** Invoice Notes ***

Scale use from Chase Invironmental Group PO F0908004P.F

Chase invironmental group (counter sale invoice) 2701 E Ash Street Building B Springfield IL 62703 6189795902

Payment Method: Credit Card (MasterCard ****8160)

Delivered By	Date	Received By	
Additional Information	2	received by	Date
Ruditional Information	Payment Terms: IMMEDIATE	Invoice Sub Total:	460.00
		Sales Tax:	0.00
		Invoice Total:	460.00
		Less Prepay Used:	0.00
		Less Prepay Discount:	0.00
		Gross Invoice Total:	460.00
		Amount Due:	460.00
		Remit To:	
		CROP PRODUCTION SERVICES, INC	0228
	1 of 1	PO BOX 191	••
		MT. STERLING IL 62353	



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Matt Rives

Attn: Phone:

(217) 670-1916

Invoice Number 38001695

Invoice Date:

May 18, 2018

Due Date:

June 18, 2018

F0908004 / Parkers Gas & More Clayton,

 Π

PO:

Received:

Project:

05/11/2018

Work Order(s): 1

18E0317

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
17	ASTM D2974 % Solids [5 day]	Solid	\$0,00	\$0.00
17	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,808.46
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
17	SW 8270C PNA [5 day]	Solid	\$190.24	\$3,234.08

Invoice Total:

\$5,042,54

Depart: . 632
Job# F0908004 P.F
Equip#:
Account#:
Cost Code#: 40
Date: 5/23/15
Pay 36

Client #:

2550065

Page 1 of 1



PDC Laboratories, Inc.

INVOICE

I8001696

May 18, 2018

June 18, 2018

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071

Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

PO:

Received:

Project:

Received:
Work Order(s):

05/11/2018

Invoice Number

F0908004 / Parkers Gas & More Clayton,

Invoice Date:

Due Date:

18E0318

IL

Attn: Phone: Matt Rives

(217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
8	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
8	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$851.04
7	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
8	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,521.92

Invoice Total:

\$2,372.96

Depart: '03L

Job# <u>F0908004P</u>. F

Equip#:

Account#:

Cost Code#: 90 Approved By: M

Date: 5/23/18

Day 36

Purkers Gasamore

JPMORGAN CHASE & CO.

Post date: Amount:	06/25/2018 \$ 13371.58		
THE SUM OF THE SUM OF	vable 777.103.377//	The sectory actions and sections and sections and sections are set to be sections. The sectory actions and sections are sections and sections are sections are sections. The sections are sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections. The section are sections are sections are sections are sections. The sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections. The sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections are sections. The sections are sections are sections are sections are sections are sectio	For Depreys Only to Courier Companies Inc

Show: Current Register | Checking Account Electronic Hings Received Clerk's Office 10/23/2020
Check Register
CHASE ENVIRONMENTAL GROUP, INC.
8/2/2018

Page 1 8/2/18/55 18 12/18/74

Account: CHASE BANK - Chase Bank

<u>Check R Datz Perior</u> 93188-R 6/20/2018 Jun, 20	Vourber Invoice 15915 18001695 15916 16366 18002216 16366 18002207 16365 18002214 Account CHASE BANK - Chase Bank	Payable/ Payroll 5,042,54 22,72,96 425,52 4,998,66 531,90 13,371,58	Retention 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Cash -5,042.54 -2,372.96 -425.52 -4,998.66 -531.90 -13,371.58	Discount 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Workers <u>Comp.</u> 0.00 0.00 0.00 0.00 0.00 0.00 0.00	State
		13,371.58	0.00	-13,371.58	0.00	0.00	0.00



PDC Laboratories, Inc.

INVOICE

18001802

May 23, 2018

June 22, 2018

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

PO:

Received:

Project:

05/15/2018

Invoice Number

F0908004-Parkers / Clayton, IL

Invoice Date:

Due Date:

Work Order(s):

18E0371

Attn: Phone: Matt Rives (217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
7	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
7	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$744.66
4	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
7	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,331.68

Invoice Total:

\$2,076.34

Depart: 637
Job# F0968064P, F
Equip#:
Account#: 90
Cost Code#:
Approved By: XC
Date: 7/24/18
Day 30

JPMorgan Chase & Co.

Post date:	06/19/2018	Account:	979089729
Amount:	\$ 2076.34	Check Number:	93128
THE SUPLOF	eles, Inc.	The rest of the control of the contr	Seq: 44 Dep: 005178 Date: 06/19/18 Do not went, star panes in: Donosited by: Seq: 44 Dep: 005178 Date: 06/19/18 Seq: 44 Dep: 005178 Date: 06/19/18 Seq: 44 Dep: 005178 Date: 06/19/18 Seq: 44 Dep: 005178 Date: 06/19/18



PDC Laboratories, Inc.

INVOICE

I8001874

May 29, 2018

June 28, 2018

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071

Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Project:

F0908004P.F Parkers: Clayton, IL

Invoice Number

Invoice Date:

Due Date:

PO:

Received:

Work Order(s):

05/21/2018 18E0510

Attn: Phone: Matt Rives

(217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
12	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
12	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,276.56
12	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
12	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,282.88

Invoice Total:

\$3,559.44

Equip#:

Account#:

Cost Code#: Approved By

JPMorgan Chase & Co.

Post date: 07/05/2018 Amount: \$ 3559.44

	CHASE ENVIRONMENTAL GROUP, INC.	93249
•	TIAIC WATTERSON CT - LOUSVELE KENTUCKY 40299-2369	
\$.C	250737097-1455	93249
. 5	6/27/2018	ANTONT
	THE SUM OF THREE THOUSAND FIVE MUNICIPED FIFTY MINE DOLLARS AND 44 CENTS	************
PAY TDT-E PROPER	PDC Laboratoxies, Inc.	
	Accounts Receivable PO Box 9071 Ponds, It 5/612-9071	137711
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Seq: 40 Ocp: 005221 Date: 07/05/18	For Deposit Only to Evoperation Coulter Companies Marker Companies Marker Companies Marker Peposited by:
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	BRIT SIN, AC



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071

Peoria, IL 61612-9071

217.753.1148

Invoice Number 18001884

Invoice Date:

May 30, 2018

Due Date:

June 29, 2018

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Project:

F0908004P.F Parkers: Clayton, IL

PO:

Received:

05/21/2018

Work Order(s):

18E0511

Attn:

Matt Rives

Phone:

(217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
15	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
15	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,595.70
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
15	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,853.60

Invoice Total:

\$4,449.30

Depart: -032
JOB# F0908004P. F
Equip#:
Account#:
Cost Code#: 90
Approved By: MC
Date: 5/36/18
Day 30

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc. Accounts Receivable

PO Box 9071

Peoria, IL 61612-9071

Check: 93517

Date: 8/8/2018 Vendor: PDC LAB

Prior

<u>Invoice</u> P.O. Num. 8001884

Invoice Amt 4,449.30

Balance 4,449,30

Retention 0.00

Discount 0.00

Amt. Paid 4,449.30

4,449.30

4,449.30

0.00

0.00

4,449.30

CHASE ENVIRONMENTAL GROUP, INC.

11450 WATTERSON CT LOUISVILLE, KENTUCKY 40299-2389 (502) 267-1455

21-13/830

CHASE

JPMorgan Chase Bank, N.A www.Chase.com

93517

AMOUNT

9351

DATE

8/8/2018

********4.449.30 THE SUM OF FOUR THOUSAND FOUR HUNDRED FORTY NINE DOLLARS AND 30 CENTS *********

PAY TO THE ORDER

OF:

PDC Laboratories, Inc. Accounts Receivable PO Box 9071 Peoria, IL 61612-9071

> IFO 93517IF

979089729

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc. Accounts Receivable

PO Box 9071

<u>Invoice</u>

8001884

Peoria, IL 61612-9071

Check: 93517

Date: 8/8/2018 Vendor: PDC LAB

Prior

P.O. Num.

Invoice Amt 4,449.30

Balance 4.449.30

Retention 0.00 Discount 0.00

Amt. Paid 4,449,30

4,449.30 4,449,30 0.00 0.00 4,449.30

Owens, Melissa

From: Sent: To: Subject: Attachments:	Matthew Rives <mrives@chaseenv.com> Monday, October 01, 2018 11:56 AM Owens, Melissa [External] Re: Parker's Gas & More 951012 corrective action claim handling charge.pdf; backfill invoice.pdf</mrives@chaseenv.com>
Follow Up Flag: Flag Status:	Follow up Flagged
Morning hope you had a good w	veekend
Payment Certification For new forms aren't provide stated it needed to be copied the reimburser.	Ind Licensed Professional Engineer/Geologist Billing Certification Form and orm have signature dates prior to the last day listed in the billing period. If ed, we will need to cut costs incurred after June 19th. I thought is how you done. I can send you a copy of our email correspondence. We built and ment I certify take to owner to have him sign he is the last to date and build be fine for reimbursement.
2. Did you include the form I have included it for y	n for handling charges? I don't see it. <i>I am sorry it looks like it was left out.</i> your review.
	invoices for the purchase of the backfill? They were hidden behind all the copied them and the checks for your review.
Quoting "Owens, Melissa" < <u>Mel</u> Hi Matt,	<u>issa.Owens@illinois.gov</u> >:
I'm working on the above refere	enced claim, and I have some questions.
Payment Certification F	d Licensed Professional Engineer/Geologist Billing Certification Form and orm have signature dates prior to the last day listed in the billing period. If ed, we will need to cut costs incurred after June 19 th .
Did you include the form	n for handling charges? I don't see it.

Central Stone Company 1701- 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE # 804419

Invoice Date: 5/15/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

Richfield IL 62312 Phone: 217-656-4387

CHASE ENVIRONMENTAL GROUP INC (CS)

718 S POPLAR ST

ORDER #: CHASEE001

P O BOX AB

CENTRALIA IL 62801

3CL BY THE TON

Please include our invoice # 804419 and Customer ID (CHASEE) on the front of your check.

		Freight	Tax		Fee									
Date	Ticket#	Code		Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	Spc Chg	Total
3CL BY TH	E TON													
5/3/2018	210295	3CL	1	Load		2520.00		0.00	6.500	163.80		0.00		2683.80
5/4/2018	210297	3CL	1	Load		2520,00		0.00	6.500	163.80		0.00		2683.80
3" CLEAN	COMM					5,040.00		0.00		327.60	-	0.00	·····	5,367.60
5/7/2018	210298 م	3CL	1	Load		2520.00		0.00	6,500	163.80		0.00		2683.80
5/10/2018	† 210302	3CL	1	Load		1995.00		0.00	6.500	129.68		0.00		2124.68
5/8/2018 y	£ 210303	3CL	1	Load		2520.00		0.00	6.500	163.80		0.00		2683.80
3/9/2018 °F	210304	3CL	1	Load		1995.00		0.00	6.500	129.68		0.00		2124.68
3" CLEAN	COMM					9,030.00		0.00		586.96	_	0,00		9,616.96
Invoice To	tals	6 Loads				14,070.00		0.00		914.56		0.00		14,984.56

Job# F 0908004P. F
Equip#:
Account#:
Cost Code#: Z O
Approved By: MR

Parkors Gas & Muse

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/14/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 5/25/2018	14,759.79
TOTAL AMOUNT DUE BY 6/14/2018	14,984.56

Date:

Central Stone Company 1701 - 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE # 806127

Invoice Date: 5/22/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

Richfield IL 62312 Phone: 217-656-4387

CHASE ENVIRONMENTAL GROUP INC (CS) 718 S POPLAR ST

ORDER #: CHASEE001

P O BOX AB

3CL BY THE TON

CENTRALIA IL 62801

Please include our Invoice # 806127 and Customer ID (CHASEE) on the front of your check.

			N	/laterial-				-Freight		Tax	Fee		
Date	Ticket #	Code	(Qty	Rate	Amount	Rate	Amount	%	Amount Co	ode Amount	Spc Chg	Total
ICL BY THE	TON				-							<u> </u>	
/11/2018 Y	210299	3CL	1 L	rosq		2205.00		0.00	6.500	143.33	0.00		2348.33
3" CLEAN C	OMM				-	2,205.00	Managem	0.00	•	143.33	0.00		2,348.33
/14/2018 *	210300	3CL	1 L	oad		3045.00		0.00	6.500	197.93	0.00		3242,93
/15/2018 ⊀	210301	3CL	1 L	.oad		2520,00		0.00	6.500	163.80	0.00		2683.80
/16/2018 ¥	210305	3CL	1 L	_oad		2520.00		0.00	6,500	163.80	0.00		2683.80
′17/2018 ¥	210306	3CL	1 L	_oad		24 15.00		0.00	6.500	156.98	0.00		2571.98
3" CLEAN C	MMO				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10,500.00		0.00	-	682.51	0.00		11,182.51
Invoice Tota	als	5 Loads				12,705.00		0.00		825.84	0.00		13,530.84

Depart: 0032
Job# F0908604P.F
Equip#:
Account#:
Cost Code#: 20
Approved By: N
Date: 5/29/18

Please request invoice changes or deductions BEFORE payment is made.

otal due must reach our office by 6/21/2018. A 1.5% ervice charge (18% per annum) will be charged on last due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	13,327.88
TOTAL AMOUNT DUE BY 6/21/2018	13, <u>53</u> 0.84

Central Stone Company 1701 - 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE# 806126

Invoice Date: 5/22/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Florence Quarry CS33

26176 487 St.

Pittsfield IL 62363 Phone: 217-723-4410

ORDER#: CHASEE002

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)

718 S POPLAR ST P O BOX AB

CENTRALIA IL 62801

CLAYTON IL FILL JOB

Please include our Invoice # and Customer ID (CHASEE) on the front of your check. 806126

			Materi	al			-Freight		Tax	Fee	
Date	Ticket #	Code	Qty	Rate	Amount	Rate	Amount	%	Amount Code	Amount	Total
CLAYTON II	L FILL JOB										1 0 (21)
/18/2018 7	30464886	CM6SP	20.64	6.70	138.29		0.00	7.750	10.72	0.00	149.01
/18/2018 ≠	30464887	CM6SP	20.82	6.70	139.49		0.00	7.750	10.81	0,00	150.30
/18/2018 -/	30464888	CM6SP	20.68	6.70	138.56		0.00	7.750	10.74	0.00	149.30
/18/2018 _{**}	30464889	CM6SP	19.38	6.70	129.85		0.00	7.750	10.06	0.00	139.91
079CM06 IL	. ST BASE	_	81.52		546.19		0.00		42.33	0.00	588.52
Invoice Tot	ais		81.52		546.19		0.00		42.33	0.00	588,52

Equip#: Accountit Cost Cods#1

lease request invoice changes or deductions BEFORE payment is made.

otal due must reach our office by 6/21/2018. A 1.5% ervice charge (18% per annum) will be charged on ast due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	579.69
TOTAL AMOUNT DUE BY 6/21/2018	588.52 0242

JPMORGAN CHASE & CO.

Post date: Amount:	06/11/2018 \$ 29103.92	
FAY TO THE OWNER OF Central Stane Company 1701 5th Street Rolling, 1L 61265-7900	93056 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	DO NOT WHITE ETT LID DIS SICH THE LIME

Show: Current Register | Checking Account Electronic Register | Checking Account Electronic Register | Check Register

					heck Reg ONMENT 8/2/201	AL GROUP, INC.				-	Page 1 87/1817:12 10 12.0,18774
				Account: CH	ASE BAN	K - Chase Bank					
<u>Check R</u> 93096 R	<u>Date</u> 6/6/2018	<u>Period</u> Jun, 2018	Vendor Number and Name CENTSTON Central Stone Company 1701 5th Street Moline, IL 61265-7900	<u>Voucher</u> 15918 16004 16005	Invoice 804419 806126 806127	Payable/ <u>Payroll</u> 14,984.55 588.52 13,530.84 29,103.92	Retention 0.00 0.00 0.00 0.00	Cash -14,984.56 -588.52 -13,530.84 -29,103.92	Discount 0.00 0.00 0.00 0.00	Workers <u>Comp.</u> 0.00 0,00 0.00 0.00	State <u>Tax</u> 0.00 0.00 0.00 0.00

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Central Stone Company 1701- 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE# 807812

Invoice Date: 5/30/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

.........

SOLD TO:

Richfield IL 62312 Phone: 217-656-4387

CHASE ENVIRONMENTAL GROUP INC (CS)

1 110110, 217 000 1007

718 S POPLAR ST

ORDER#: CHASEE001

P O BOX AB

3CL BY THE TON

CENTRALIA IL 62801

Piease include our Invoice #

807812 and Customer ID (CHASEE) on the front of your check.

			N	/lateria				Freight		Tax	Fee	
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3CL BY THE	TON	-						· · · · · · · · · · · · · · · · · · ·	<u> </u>			
i/18/2018 🏲	210307	3CL	1 L	Load		2100.00		0.00	6.500	136.50	0.00	2236.50
3" CLEAN C	MMO					2,100.00		0.00		136.50	0.00	2,236.50
i/22/2018 🗸	210308	3CL	1 L	_oad		3255.00		0.00	6.500	211.58	0.00	3466.58
√22/2018¥	210309	3CL	1 L	oad		315.00		0.00	6,500	20,48	0,00	335.48
√21/2018 🗡	210320	3CL	1 L	oad.		3255.00		0.00	6.500	211.58	0.00	3466,58
3" CLEAN C	MMO					6,825.00	······	0,00	•	443.64	0.00	7,268.64
Invoice Tota	als	4 Loads				8,925.00		0.00		580.14	0.00	9,505.14

Depart: a 032
Job# <u>FO908004</u> P, F
Equip#:
Account#:
Cost Code#: 20
Approved By: MC Date: 62/4/18
Date: (2/7//)

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/29/2018, A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/9/2018	9,362.56
TOTAL AMOUNT DUE BY 6/29/2018	9,505.14 0245

JPMorgan Chase & Co.

			•	
Post date:	07/02/2018	Account:	979089729	
Amount:	\$ 9505.14	Check Number:	93229	
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Plant (217) 723-4410 Main Office (309) 767-8250
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Plant (217) 723-4410
Main Office (309) 757-6250
DATE: 5-7-1
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Flurence Quarry Cibbs It entral Stone Company 26176 487 St. Pittefeld IL 82363		Ticket No Liday?
LD-574-5749224		Flant (217) 723-4410
		Main Office (309) 767-8250 DATE: 5 - 15 - 15
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	II tha	Main Office (\$39,757-820)
	1611	Plane 10171721-4410 6 Muin Office 1938 757-826 DATE: 5- 20-18
Ch-50+ (1)	3	
USTOMER: Chasce chase environmental	PRODUCT: 3	(na)
	POUNDS	TONS (US) RATE AMOUNT
	100	soy tons s, ook ten
	GROSS	plus the
RDER: Chasee od		1.5
	TARE	TAX:
EHICLE:		Succe State State State
-111/	(it is bloom bloom	90 See See See See See See See See See Se
	A Second Second	man of the same of the
O./JOB:		TOTAL
ELIVERY INFORMATION:	Service	
	DRIVER'S SIGNATURE	GUSTOMER COPY 0250

X 1407 T

Mein Ciffine - 12391 757 (525)

THASE FUNDOMINATE PRODUCT: POUNDS RATE TONS (US) AMOUNT **GROSS** · 65/ 4 RDER: TAX: _____ TARE FEES: _____ EHICLE: NET TOTAL :O./JOB: ____ ELIVERY INFORMATION: DRIVER'S SIGNATURE CUSTOMER COPY 1 Plorence Quarry 05% Cantral Stone Company Toplet No. 2:0395 25175 487 St. Fitt-Reid, L. 52303 Plant (217) 729-4410 LDOT# 514\$204 Main Chinos (909) 757-8350 DATE: ______ SUSTOMER: PRODUCT: 3 POUNDS TONS (US) RATE AMOUNT **GROSS** ● 651 TAX:_ The state of the s TARE FEES: 'EHICLE: NET TOTAL '.O./JOB: __ ELIVERY INFORMATION: DRIVER'S SIGNATURE CUSTOMER COPY 1 en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co Plotence Quart, OS38 Control Stone Company Troker No. 2003/9 16:76:487 St. Phristiand, IL 6136:3 Pient (257) 723-4410 ALC/07861433(4) Mary Office (1989) 757-9050 DATE: PRODUCT: _ POUNDS RATE TONS (US) AMOUNT **GROSS** ORDER: MARCHES AND A \$ 63 TON _ TAX:____ TARE FEES: NET TOTAL P.O./JOB: _ **DELIVERY INFORMATION:**

DRIVER'S SIGNATURE

\$ 1365 T

0251

CUSTOMER COPY 1

Lumley Trucking LL Electronic Filing: Received, Clerk's Office 10/23/2020 P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: # 209 Product: Dirt Gross: 72.600 Contracted Delivery Net: 40.000 Tons Rate Tractor Work: 20 Tare: 32,500 Delivery Charge: Total Amount Due: Date: 6-6-18 Lumley Trucking LLC P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: Product: DIRT Gross: 72,000 Net: 30,41,500 Tare: 30,500 20.75 Contracted Delivery Tractor Work: 116 WARD Tons Rate 20:15 Delivery Charge: Total Amount Due: Date: 6-6-18 Lumley Trucking LLC P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: Product: Gross: 72, 300 Tractor Work: 16 WARD Net: 41,800
Tare: 30,500 20.90 Contracted Delivery Tons Rate 2090

Delivery Charge: Total Amount Due:

1111

Electronic Filing: Received, Clerk's Office 10/23/2020 Lumley Trucking LLC P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: #209 Product: DIAT Gross: 74,500 Contracted Delivery Tractor Work: Net: 42.000 Tons Rate 21 Delivery Charge: Tare: 32,500 Total Amount Due: Date: 6-16-18 Lumley Trucking LLC P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: Product: Dirt Gross: 75,000 Contracted Delivery Net: 44, 060 Tons)) Tractor Work: Tare: 31,000 Delivery Charge: Total Amount Due: Date: 6-16-18 Lumley Trucking LLC - P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information:

Gross: 73,000

Net: 42,000

Tare: 31,000

Product:

Contracted Delivery

Tons 2 Rate

Tractor Work:

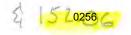
Delivery Charge: Total Amount Due: 0253

314

26176 487th Street Pittsfield, Illinois 62363 Filling: Received, Cl	lerk's Office 10/23/2020	ORIGINAL
# DOT# \$149204 Main Office: (309) 757-8250	Time Out: 07:12	
Customer; CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)	Material: CM6SP	
P O BOX AB CENTRALIA, IL 62801	Desc: 079CM06 IL ST BASE	
618) 533-6740	Billed Units: 20.64 Tons (US) Pounds	_C7. 37au
Order: CHASEE002 CLAYTON IL FILL JOB		Tons (US)
MIT MWT 1	Gross 72560	36.28
	Tare 31280	15.64
P.O./Job:	Net 41280	20.64
Today's Totals: 20.64 Tons (US) 1 Loads		
Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN	Rate	Amount
Vehicle: P882468 Driver: LUMLEY 116 GREG	000000000000000000000000000000000000000	
Delivery: Del/Pickup: PickUp		
	Tax: 122 7.750	
	Fees:	
river's signature:	Rec'd by:	
customer	copy 1	
A manufacture of the contract		
Florence Quarry CS33 Central Stone Company	TICKET NO: 30464887	ORIGINAL
26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410	Date: 5/18/2018	
ILDOT# 5149204 Main Office: (309) 757-8250	Time Out: 07:13	
Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)	Material: CM6SP	17/2001/04/05/2004/05/05/2004/05/20000000000
P O BOX AB CENTRALIA, IL 62801	Dane D70CMOS II ST DAGE	
(618) 533-6740	Billed Units: 20.82 Tons (US) Pounds	
Order: CHASEE002 CLAYTON IL FILL JOB	Pounds	Tons (US)
Orger: Chaseouz Claiton il Fill 305	Gross 74480	37.24
	Tare 32840	16.42
P.O./Jab:	Net 41640	20.82
Today's Totals: 41.46 Tons (US) 2 Loads		
Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN	Rate	Amount
Vehicle: P980940 Driver: LUMLEY #209		***************************************
Del/Pickup: PickUp	***************************************	
mentality and the second	Tax: 122 7.750	
	Fees:	
	10.00	
river's signature:	Rec'd by:	
customer	copy I	
Florence Quarry CS33 Central Stone Company	70/CT 110. 20/C/200	COLONIA
	TICKET NO: 30464888	ORIGINAL
26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410	Date: 5/18/2018	
LDOT# 5149204 Main Office: (309) 757-8250	Time Out: 07:16	
Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)	Material: CM6SP	
P O BOX AB CENTRALIA, IL 62801	Desc: 079CM06 IL ST BASE	
618) 533-6740	Billed Units: 20.68 Tons (US)	Tons (US)
Order: CHASEE002 CLAYTON IL FILL JOB	Gross 73440	36.72
	Tare 32080	16.04
× 20 (1.7)	Net 41360	20.68
P.O./Job: Foday's Totals: 62.14 Tons (US) 3 Loads	The state of the s	
	Plan	Δ
Rate: Carrier: /ehicle: P980941 Driver: LUMLEY TRUCKING	Rate	<u>Amount</u>
Delivery: Del/Pickup: PickUp	100	
	Tax: 122 7.750	
	Fees:	

Florence Quarry CS33 Electronic Pilling: Received. C 26176 487th Street Pittsfield, Illinois 62363 ILDOT# 5149204 Main Office: (309) 757-8250	Time Out: 07:17	
Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS) P 0 BOX AB CENTRALIA, IL 62801 (618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB P.O./Job:	Material: CM6SP	Tons (US) 36.01 16.63 19.38
Today's Totals: 81.52 Tons (US) 4 Loads		
Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN Vehicle: P499087 Driver: LUMLEY 108 Del/Pickup: PickUp	Tax: 122 7.750 Fees:	Amount
Driver's signature:	Rec'd by:	
custome		
Date: 5-9-18 Load of: Wash Rook		
Name: #15 Baird	72800	
Address:	20306	
□ On	24 500	
Driver: Off		The state of the s
Weigher:	* *	
Remarks:		23997
		379.28 379.28 379.25 - 252.1
Date: 5 -9-18		J.
		279.25-1.5- 256"
.oad of: Wash Rock	64640	2
lame: #8 Bair D	64640	
lame: #8 Dair U	5/000	
Address:	426 0	
□ On		
Oriver: Off	/ //	
	() ()	0255
	1 1 2	0255

5-9 18			
Date: 7-17			
Load of: #1		Date: 5-7-18	
Name:		*	
Address:	72140	Load of: West Roct	
Driver: 🗆 Off	33 000	Name; Being #99	68260
Weigher:	19.51	Address:	
Remarks:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	On Driver: Off	
Date: 3-9-18	#13 8:85 m	Weigher:	12
		Remarks:	18.52
Load of: West Rect	72040	De-	
Name: Beaute # 13		Date: 5-9-18	
Address:		LORD OF WASH ROCK	
☐ On Driver: ☐ Off	1'= -w-	Name: BOHIRd #8	71200
Weigher:	19.52	Address:	31 000
Remarks:	19.5	□ On	And the contract of the contra
		Driver: Off	2011
		Weigher:	the standard
		Remarks:	
Date: 5-9-18			
Load of: WASK ROCK		Date: 5-5-48	
Name: Beried #99	69160	Load of: Wash Rock	پادائور _ مي دائر وادد ر
Address:	31480	Name: # & Baird	67880 31000
O on	27640	Address	or you want of parties of the partie
Driver: 3 Off	Lo Cara	On Driver: O Off	18,44
Weigher:	1884	Weigher:	1 1/2 m
Remarks:		Remarks;	der
Date:5-9-18		Deliation.	
Load of: #8		Date: 4-9-/5	
Name:		Load of: Wash Rost	67360
	1080817	Name: = 77	5160_
Address:	00000 18.94	Address:	
Driver: Off	31.00	Jon	
Weigher:		Driver: 🗆 Off	18.13
Remarks:	200	Weigher:	The same of



Date: S-9-18 Load of: Wash Root Name: \$1 99 Bolov Address: On Driver: Off Weigher: Remarks:	68,000 31.270 18.42	Date: 5-//-/ 2 Load of: 65 5 Name: 13 Address: 0 On Driver: 0 Off Weigher:	79980 31000 18486
Date: 5 9-18 # Load of: Wash Rock Name: Beand #13 Address: On Driver: Off Weigher: Remarks:	74360 33,000 20.68	Date: 5-11-19 Load of: 24 14655 Name: 52 2 2 1 Address: □ On Driver: □ Off Welgher: 3-5-4 Remarks:	6 5280 33006 17.6
Date: 5-16-18 Load of: # 8		Date: 5. 10.17	
Name: Address: On Driver: Off Weigher: Remarks:	73,800	Name: Address: On Driver: Off Welgher:	74 200 33000 20.6
Date: 5 10 17 Load of: # 99 Name: Address: J On Driver: J Off	72540	Date: # 5 // R Load of: # 8 Name:	35460

31000	Driver: Off Weigher: Date: S-10-18 Load ot: Off Name: Address: On Driver: Off Weigher: Remarks:	78,280
31000	Driver: Off Weigher: Remarks: Date: S-10-KS Load of: 9 Name: Address: Off	72,280
31000	Driver: Off Weigher: Remarks: Date: S-10-18 Load of: 09 Name: Address:	72,280
7/126	Driver: Off Weigher: Remarks: Date: S-10-8 Load of: 99	72,280
7/12/5	Driver: Off Weigher: Remarks: Date: S-10-8	72200
	Driver: Otf Weigher: Remarks:	9
	Driver: Off	9
	Oon	
	Name:Address:	78 880 3300
- 74 %60 - 33 000	LUGA VI.	-
tweek#13	Date: 5 10 18	
		4.000
Alleria de la company	Remarks:	14
33008	Driver: 🗍 Off	31,000
	Address:	64,840 31,000
	Load of: 3	
	Remarks:	£\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
9 7 .	Weigher:	7 2 2 3 3
A CONTRACT OF THE PROPERTY OF	Address:	31,220
67,960	Name# 99 7	-5, 180
	Load of:	
	31,220 33000 33000 33000 33000 33000 33000 33000 34860	STATE STAT

Central Stone Company 1701 - 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE# 806127

Invoice Date: 5/22/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

Richfield IL 62312 Phone: 217-656-4387

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P.O. BOX AB

ORDER #: CHASEE001

P O BOX AB CENTRALIA IL 62801

3CL BY THE TON

Please include our Invoice #

806127 and Customer ID (CHASEE) on the front of your check.

				-Materia	al			-Freight		Tax		Fee		
Date	Ticket#	Code		Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	Spc Chg	Total
3CL BY THE	TON													
5/11/2018 ⊀	210299	\$3CL ↓↓↓/	1	Load		2205.00		0.00	6.500	143.33		0.00		2348.33
3" CLEAN C	MMC				-	2,205.00		0.00	•	143.33	-	0.00		2,348.33
5/14/2018 😘	210300	® 3CL ८०९	1	Load		3045.00		0.00	6.500	197.93		0.00		3242.93
5/15/2018 🔸	210301	®3CL ≤0// <	1	Load		2520.00		0.00	6.500	163.80		0.00		2683.80
5/16/2018 🛧	210305	⊚3CL 💯 √	1	Load		2520.00		0.00	6.500	163.80		0.00		2683.80
5/17/2018 👍	210306	∌ 3CL//⊱3	1	Load		2415.00		0.00	6.500	156.98		0.00		2571.98
3" CLEAN CO	MMC					10,500.00		0.00	-	682.51	-	0.00		11,182.51
Invoice Tota	ls	5 Loads			7	12,705.00		0.00		825.84		0.00		13,530.84

14,070.00 12,705.00 26,775.00 -2,000 13.39 ton

Depart: <u>603</u> Job#<u>F0908604P</u>, F Equip#:

Account#:_

Cost Code#: ZO

Approved By:

nate: 5/2%/

2541 700 = 15 /694 VD3

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	13,327.88
TOTAL AMOUNT DUE BY 6/21/2018	13,530.84
	0259

Central Stone Company 1701 - 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE # 804419

Invoice Date: 5/15/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

Richfield IL 62312

Phone: 217-656-4387

CHASE ENVIRONMENTAL GROUP INC (CS) 718 S POPLAR ST 500 how

P O BOX AB

CENTRALIA IL 62801

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 804419 and Customer ID (CHASEE) on the front of your check.

				Materia	al			-Freight 		Tax		Fee		
Date	Ticket#	Code		Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	Spc Chg	Total
3CL BY TH	E TON					jî								
5/3/2018	210296	®3CL	1	Load		2520.00		0.00	6.500	163.80		0.00	I	2683.80
5/4/2018	210297	\$3CL <i>≤0U</i>	1	Load		2520.00		0.00	6.500	163.80		0.00	İ	2683.80
3" CLEAN	COMM	/				5,040.00		0.00		327.60	-	0.00		5,367.60
5/7/2018	∲ 210298	§3CL 50€	1	Load		2520.00		0.00	6.500	163.80		0.00	i	2683.80
5/10/2018	† 210302	®3CL [™]	1	Load		1995.00		0.00	6.500	129.68		0.00		2124.68
5/8/2018	← 210303	⊚3CL ≤60	1	Load		2520.00		0.00	6.500	163.80		0.00		2683.80
5/9/2018 ¥	210304	⊚3CL ?∳3	1	Load		1995.00		0.00	6.500	129.68		0.00		2124.68
3" CLEAN	COMM	•				9,030.00		0.00		586.96	•	0.00		9,616.96
Invoice To	otals	6 Loads				14,070.00		0.00		914.56		0.00		14,984.56

Equip#:

- Parkers Gas BMuse

Account#:

Cost Code#: Approved By: 📉

Date:

2814-100=15 - 1876

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/14/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 5/25/2018	14,759.79
TOTAL AMOUNT DUE BY 6/14/2018	14,984.56
MC ON DEVENCE CIDE	0260

Central Stone Company 1701-5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE# 807812

Invoice Date: 5/30/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

Richfield IL 62312 Phone: 217-656-4387

.

CHASE ENVIRONMENTAL GROUP INC (CS) 718 S POPLAR ST

ORDER #: CHASEE001

P O BOX AB

3CL BY THE TON

CENTRALIA IL 62801

Please include our invoice # 807812 and Customer ID (CHASEE) on the front of your check.

							Freight		Tax 		! CC		
ket# C	ode		Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	Spc Chg	Total
307	3CL ∮ ີ .0	1 I	Load		2100.00		0.00	6.500	136.50		0.00		2236.50
					2,100.00	•	0.00		136.50	-	0.00		2,236.50
		1 1	Load		3255.00		0.00	6.500	211.58		0.00		3466.58
309 🖟	3CL 🥕 −	1 [Load		315.00		0.00	6.500	20.48		0.00		335.48
320 🔅	3CL ८ౢ<	1 L	Load		3255.00		0.00	6.500	211.58		0.00		3466.58
					6,825.00		0.00		443.64	•	0.00		7,268.64
	4 Loads				8,925.00		0.00		580.14		0.00		9,505.14
3	307 ® 308 8	307 3CL (3) 308 3CL (5) 309 3CL (5) 320 3CL (5)	307 3CL (3) 1 308 3CL (5) 1 309 3CL (5) 1 320 3CL (5) 1	307 3CL 3 1 Load 308 3CL 3 1 Load 309 3CL 3 1 Load 320 3CL 3 1 Load	307 3CL 3 1 Load 308 3CL 3 1 Load 309 3CL 3 1 Load 320 3CL 3 1 Load	307 3CL 20 1 Load 2100.00 2,100.00 308 3CL 3 1 Load 3255.00 309 3CL 3 1 Load 315.00 320 3CL 3 1 Load 3255.00 6,825.00	307 3CL 2 1 Load 2100.00 2,100.00 308 3CL 3 1 Load 3255.00 309 3CL 3 1 Load 315.00 320 3CL 3 1 Load 3255.00 6,825.00	1 Load 2100.00 0.00 2,100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	307 3CL 2 1 Load 2100.00 0.00 6.500 2,100.00 0.00 6.500	3CL 3 1 Load 2100.00 0.00 6.500 136.50 2,100.00 0.00 6.500 211.58 3CL 3 1 Load 3255.00 0.00 6.500 20.48 3CL 3 1 Load 3255.00 0.00 6.500 211.58 3CL 3 1 Load 3255.00 0.00 6.500 211.58 3CL 3 1 Load 3255.00 0.00 6.500 211.58 3CL 3 1 Load 3255.00 0.00 6.500 2443.64	3CL 3 1 Load 2100.00 0.00 6.500 136.50 2,100.00 0.00 6.500 211.58 309 3CL 3 1 Load 315.00 0.00 6.500 20.48 320 3CL 3 1 Load 3255.00 0.00 6.500 211.58 6,825.00 0.00 6.500 211.58	307 3CL 2 1 Load 2100.00 0.00 6.500 136.50 0.00 2,100.00 0.00 0.00 136.50 0.00 0.00 0.00 136.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	307 3CL 10 1 Load 2100.00 0.00 6.500 136.50 0.00 2,100.00 0.00 0.00 136.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Depart: 3 03 7

Job# F0908004P, F

Equip#:

Account#:

Cost Code#: 20

Approved By: MR

Date: 6/4/18

1795 tow = 1.5 = 1196

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/29/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/9/2018	9,362.56
TOTAL AMOUNT DUE BY 6/29/2018	9,505.14

Electronic Filing: Received, Clerk's Office 10/23/2020 JPMorgan Chase & Co.

Post d Amour		07/02/2018 \$ 9505.14			Account: Check Number:	979089729 93229		
	HASE ENVIRONMENTA 11430 WATTERSK LOUISVILLE KENTUCKI [502] 287-145 THE SUM OF NINE THO		CHSE _PHOPM CHASE Black, N.A. www.Chase com 21-15400 OATE 6/27/2018 **OOLLARS AND 14 CENTS************************************	93229 93229 AMOUNT	The security defines asset of bloomy by the security of bloomy by the	750170 907769020/VA	FOR DEPOSIT ON CENTRAL STONE.	OHDORGE HERE:
	Central Stone Company 1701 5th Street Moline, JL 61265-7900		979089729=	BMIL BOOK	Affirm and a money of the control of		E CO.	

Central Stone Company 1701 - 5th Avenue Moline IL 61265-7900

INVOICE

Page 1 of 1

INVOICE# 806126

Invoice Date: 5/22/2018 CUSTOMER ID: CHASEE TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250

FAX: 309-757-8257

SOLD TO:

PLANT SITE: Florence Quarry CS33

26176 487 St.

Pittsfield IL 62363 Phone: 217-723-4410

ORDER #: CHASEE002

CLAYTON IL FILL JOB

CHASE ENVIRONMENTAL GROUP INC (CS)

718 S POPLAR ST P O BOX AB

CENTRALIA IL 62801

Please include our Invoice # 80612

nvoice # 806126 and Customer ID (CHASEE) on the front of your check.

			Materia	al			-Freight		Tax	Fe e	
Date	Ticket#	Code	Qty	Rate	Amount	Rate	Amount	%	Amount Code	Amount	Total
CLAYTON II	. FILL JOB										
5/18/2018 >	30464886	CM6SP	旧 20.64	6.70	138.29		0.00	7.750	10.72	0.00	149.01
5/18/2018 🚁	30464887	CM6SP	20.82	6.70	139.49		0.00	7.750	10,81	0.00	150.30
5/18/2018 1	30464888	CM6SP	20.68	6.70	138.56		0.00	7.750	10.74	0.00	149.30
5/18/2018⊶	30464889	CM6SP	@19.38	6.70	129.85		0.00	7.750	10.06	0.00	139.91
079CM06 IL	ST BASE		81.52		546.19		0.00		42.33	0.00	588.52
Invoice Tot	als		81.52		546.19		0.00		42.33	0.00	588.52

- 54-35 YB3

Depart: 60908004P, F

Job# F 0908004P, F

Equip#:

Account#:
Cost Code#: 20

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	579.69
TOTAL AMOUNT DUE BY 6/21/2018	588.52

Electronic Filing: Received, Clerk's Office 10/23/2020 JPMorgan Chase & Co.

Post date: Amount:	06/11/2018 \$ 29103.92				
PAY TO THE ORDER OF Central Stone Compa 1701 5th Street Moline, IL 61265-790	TAL GROUP, INC. PSON OT COY 10259-2349 Y NINE THOUSAND ONE HUNDRED THREE D INV	17/2018 17 29#	Presenting for the present of the pr	750176 587763611784	POR DEPOSIT ONLY CENTRAL STONE CO. CENTRAL STONE CO. DO NOT WRITE, STAND DR SIGN BELOW THIS LINE

Show: Current Register | Checking Account: CHASE BANK | Checks: 93096 Received sector | CHASE BANK | Checks: 93096 Received sector | CHASE ENVIRONMENTAL GROUP, INC.

8/2/2018

Page 1 8/2/18 17:12 10 12.0.180724

Account: CHASE BANK - Chase Bank

						Payable/				Workers	State
Check R	<u>Date</u>	<u>Period</u>	Vendor Number and Name	<u>Voucher</u>	Invoice	<u>Payroll</u>	Retention	<u>Cash</u>	Discount	Comp.	<u>Tax</u>
93096 R	6/6/2018	Jun, 2018	CENTSTON Central Stone Company	15918	804419	14,984.56	0.00	-14,984.56	0.00	0.00	0.00
			1701 5th Street	16004	806126	588,52	0.00	-588.52	0.00	0.00	0.00
			Moline, IL 61265-7900	16005	806127	13,530.84	0.00	-13,530.84	0.00	0.00	0.00
						29,103.92	0.00	-29,103,92	0.00	0.00	0.00
										_	
				Account CH	ASE BANK - Chase Bank	29,103.92	0.00	-29,103.92	0.00	0.00	0.00
									_		=
						29,103.92	0.00	-29,103.92	0.00	0.00	0.00

CROP PRODUCTION SERVICES ENCETONIC Filing: Received, Clerk's Office 10/23/2020

PO BOX 191 MT. STERLING, IL 62353 217-773-2012

Production

INVOICE

11824791

Invoice #: 35890569 Invoice Date: 05/11/18 Due Date: Cash On Delivery 05/11/18 Delivery Date:

Order #: PO#:

Sales Rep: FLESNER, Andrew

CASH SALES MT STERLING (1027524)

DO NOT MAIL RT 24 WEST

MT STERLING, IL 62353

Ship Via: Customer Vehicle

County: BROWN

Product # Product Description	Quantity	Gross Unit Price	Gross Ext'd Sales Tax Price
1000184701 - MISC. CHARGE	460.0000 EA	1.0000	460.00

Safety Data Sheets are available upon request for applicable products. Contact your local branch for details. No Recommendation has been made or provided by seller concerning the use of any pesticide covered by this invoice. For a medical emergency involving this product, call 1-866-944-8565. For help with any spill, leak, fire or exposure, call Chemtrec at 1-800-424-9300.

*** Invoice Notes ***

Scale use from Chase Invironmental Group PO F0908004P.F

Chase invironmental group (counter sale invoice) 2701 E Ash Street Building B Springfield IL 62703 6189795902

Payment Method: Credit Card (MasterCard ****8160)

Delivered By	Date	Received By	Date
Additional Information	Payment Terms: IMMEDIATE	Invoice St	
		Sa	iles Tax: 0.00
		Invoid	ce Total: 460.00
		Less Prepa	ay Used: 0.00
		Less Prepay D	iscount: 0.00
		Gross Invoid	ce Total: 460.00
		Amou	int Due: 460.00

Remit To:

CROP PRODUCTION SERVICES, INC.

MT. STERLING, IL 62353

PO BOX 191

QUEUE DATE TRACKING SHEET **LUST CLAIMS UNIT**

LPC#

<u>0010105006</u>

INCIDENT #

<u>951012 - 69508</u>

QUEUE DATE

8/16/2018

120-DAY DATE

12/14/2018

SITE NAME:

Parker's Gas & More Inc.

OWNER/ OPERATOR:

PARKER, TED

CLASS CODE:

CA

PROGRAM:

734

AMOUNT REQUESTED:

\$577,244.80

BILLING PERIOD

FROM: <u>12/1/2017</u>

TO:

6/30/2018

CONSULTANT:

CHASE ENVIRONMENTAL GROUP, INC.

OPT-IN:

10/10/2008

- need new 0/0... (6/19)

- mad new payment cost form (6/29)

NFR:

SENT TO DIVISION FILE:

COMMENTS:

- handling form?
- handling form?
- movides for princhase of backfill?
- quan seed approved? Peter & bridget
- quan seed approved? per prior seed
w/ digging > cut grans seed
- execces min

First claim for this Incident Number?

Yes No - not in budget

Yearly breakdowns required?

Yes

No

- Crop. Dill what were they weighing?
- med purchase increase for tribbed trekets
- ask about 91,058 belief to 010?

Printed on Thursday, August 23, 2018

0267



Waste Management • Remediation • Drilling Services

August 13, 2018

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking UST Section P.O. Box 19276 Springfield, IL. 62794-9276

RE: LPC# 0010105006—Adams County

Parker's Gas and More 101 East Outer Belt Drive

Clayton, IL IEMA # 1995-1012

To Whom It May Concern:

Enclosed please find one original and one copy of the Corrective Action Billing Package for the above-referenced site.

Should you have any questions or need additional information, please call us at 217-670-1916.

Sincerely,

Chase Environmental Group, Inc.

Matthew D. Rives, P.E. Environmental Engineer

RECEIVED

AUG 1 6 2018

IEPA/BOL

AUG 1 6 2018

IEPA-BOL
PERMIT SECTION

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

CORRECTIVE ACTION BILLING APPLICATION FOR

LPC #0010105006—Adams COUNTY PARKER'S GAS AND MORE 101 EAST OUTER BELT DRIVE LUST INCIDENT # 1995-1012

CEG PROJECT #F0908004P.F

Prepared for:

Mr. Ted Parker 2970 North 2050th Ave Clayton, IL 62324

Prepared By:

Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62704

RECEIVED
AUG 1 6 2018
IEPA/BOL

August 2018

TABLE OF CONTENTS

1.0	ACCESS THE FUND
2.0	WBE/MBE FORM
3.0	ACCOUNTING OF EARLY ACTION COSTS
4.0	OWNER/OPERATOR P.E. BILLING CERTIFICATION
5.0	PRIVATE INSURANCE AFFIDAVIT AND QUESTIONAIRRE
6.0	PAYMENT CERTIFICATION FORM
7.0	W-9 FORM



1.0

PROOF OF OSFM DETERMINATION OF ELIGIBILITY TO ACCESS THE FUND

RECEIVED

AUG 1 6 2018



1805053 - NIW



Office of the Illinois State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

RECEIVED AMENDED

JUL 2 3 2007

July 18, 2007

BY: AL

Parker's Gas and More P.O. Box 236 Clayton, IL 62324

In Re:

Facility No. 5-013158 IEMA Incident No. 95-1012 Parker Gas-N-More, Inc. 101 E Outerbelt Dr., Hwy. 24

P.O. Box 236

Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 3 4,000 gallon Gasoline

Tank 4 4,000 gallon Gasoline

Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government, RECEIVED

2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,

AUG 1 6 2018

The costs were incurred as a result of a confirmed release of any of the following substance PA/B(3.

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Кегозеле

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- 4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
- The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk Illinois Pollution Control Board State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 (312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline Tank 2 6,000 gallon Gasoline Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

Deanne Lock

Administrative Assistant

Division of Petroleum and Chemical Safety

cc:

IEPA

Facility File

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

2.0

WBE/MBE FORM

AND QUESTIONAIRE

Women and Minority Business Enterprises Form

Name of Leaking UST site: Parkers Gas & More

The Illinois EPA is required to report State and Federal funds paid to Women Business Enterprises (WBE) and Minority Business Enterprises (MBE). Therefore, please provide the required information for all Prime Consultants/Contractors and Subcontractors used to perform the work for this billing:

The work for this billing was performed from 12-1-	-17	to <u>6-30-</u> 1	8
Prime Consultant: Chase Environmental Group, In	nc.		
FIRM'S NAME, ADDRESS, AND TELEPHONE NUMBER	IS THIS FIRM A WBE OR MBE?	IF WBE OR MBE, WHAT IS ITS STATE OF ILLINOIS VENDOR NUMBER?	AMOUNT PAID OR DUE THIS BILLING (\$)
Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62704 217-670-1916	NO		293,792.74
Hickory Ridge Landfill PO Box 9071 Peoria, IL 61612-9071	NO		131,979.67
PDC Laboratories, Inc. PO Box 9071 Peoria, IL 61612 217-753-1148	NO		21,805.33
Central Stone Company 1701 5th Avenue Moline IL 8185-7900	NO		38,609.06
Beaird Transport, Inc. 7132 E. Seed Corn Road Astoria, IL 61501	NO		91,058.00

BIL	LING	TOTAL	\$	577,244.80
-----	------	-------	----	------------

Incident No.: 951012

The Illinois EPA is authorized to request this information under the Environmental Protection Act, 415 ILCS 5/1 et seq. (formerly III. Rev. Stat. Ch 111-1/2, 1001 et seq.). Disclosure of this information is required. Failure to properly complete this form in its entirety may result in the delay or denial of any payment requested hereunder. This form has been approved by the Forms Management Center.

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

3.0

ACCOUNTING OF CORRECTIVE ACTION COSTS



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC#: 0	0010105006	_ County:	Aams	<u>.</u>
City: Cla	ayton	Site Name:	Parker's Gas and Mor	e
Site Addr	ess: 101 East Outer Belt Drive			
IEMA Inc	ident No.: 951012			
IEMA No	tification Date: 5/12/1995			
Date this	form was prepared: Jul 31, 2018			
This for	n is being submitted as a (check one,	if applicable	·):	
	Budget Proposal			
	Budget Amendment (Budget amendme	ents must inclu	ude only the costs over	the previous budget.)
\boxtimes	Billing Package			
	Please provide the name(s) and date(s		•	requested:
	02/20/2045			
This pac	Date(s): 02/20/2015 kage is being submitted for the site a	ctivities indi	cated below:	RECEIVE
35 III. Ad	lm. Code 734:			AUG 1 6 2018
	Early Action			AUU 1 6 2010
	Free Product Removal after Early Action	on		IEPA/BOL
	Site Investigation S	tage 1: 🗌	Stage 2:	Stage 3:
\boxtimes	Corrective Action A	ctual Costs		
35 III. Ad	lm. Code 732:			
	Early Action			
	Free Product Removal after Early Action	on		
	Site Classification			
	Low Priority Corrective Action			
	High Priority Corrective Action			
35 III. Ad	lm. Code 731:			
	Site Investigation			
	Corrective Action			

IL 532 -2825 LPC 630 Rev. 1/ 2007

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Ted par	ker				
Send in care of: Chase Env	ironmental Grou	p, Inc.			
Address: 2701 East Ash					
City: Springfield		State: IL	Zip	: 62703	
The payee is the; Owi	ner 🔀 Ope	erator 🔀 (Check e	one or both.)		
Tool Pala			W-9 must h	e submitted.	
Signature of the owner or opera	owner or operator of the UST(s) (required) Click here to print off a V				
Number of petroleum USTs in parent or joint stock company or or joint stock company of the o	of the owner or o	perator; and any compa	the owner or opera any owned by any	tor; any subsidiary, parent, subsidiary	
Fewer than 101:		more:			
Number of USTs at the site:	(Nu	ımber of USTs includes	: USTs presently at	the site and USTs that	
have been removed.)					
Number of incidents reported to Incident Numbers assigned to	the site due to re	eleases from USTs:	hat are presently lo	cated at the site.	
Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak	
Gasoline	6,000	Yes ☐ No 🏻			
Gasoline	6,000	Yes No 🛛		a de la composição de l	
Gasoline	4,000	Yes 🛛 No 🗌	951012	Tank Leak	
Gasoline	4,000	Yes 🛛 No 🗌	951012	Tank Leak	
Diesel Fuel	4,000	Yes 🛛 No 🗌	951012	Tank Leak	
Heating Oil	500	Yes No 🛛			
		Yes ☐ No 🛛			
		Yes ☐ No 🏻			
		Yes No No			
	Add More	Rows Undo Last	Add		

Billing Summary

	\$ Amount Approved in the Budget	\$ Amount Requested for Payment from the Fund
Drilling and Monitoring Well Costs Form	investigative	
2. Analytical Costs Form	analysis	18,006.06
3. Remediation and Disposal Costs Form	Freld purch	499,315.29 503,070.71
UST Removal and Abandonment Costs Form	*	
Paving, Demolition, and Well Abandonment Costs Form		.00
6. Consulting Personnel Costs Form	personne	43,406.68
7. Consultant's Materials Costs Form	eauip	1,705.38 2,269.20
	0 /	
Total Amount Approved in the Budget *		NOT APPLICABLE
Subtotal of lines 1-7:	NOT APPLICABLE	562,433.41 \$566,752.65
8. Handling Charges Form	NOT APPLICABLE	10,492.15
TOTAL AMOUNT REQUESTED FOR PAYMENT	NOT APPLICABLE	572,925.92 \$577,244.80

Date(s) this Budget(s) was approved:	



Waste Management • Remediation • Drilling Services

INVOICE NO 27448

INVOICE DATE

6/19/2018

TERMS

Net 120

DUE DATE

10/17/2018

Ted Parker 2970 N. 2050th Avenue Clayton, IL 62324

PROJECT NO.	CLIENT PO	CHASE WORK ORDER	PROJECT NAME	PROJ MGR
F0908004P			Parker Gas n More	MR

CEG person to contact for this project is Matthew Rives

For: CA Reimbursement

EPA#: 1995-1012

DESCRIPTION	UNIT	UNIT PRICE	TOTAL
Drilling and Monitoring Wells Costs Form	1	0.00	0.00
Analytical Costs Form	1	18,006.06	18,006.06
Remediation and Disposal Costs Form ETD 5175.67 yds @ \$69.25 - \$358,415.15 BF 5244.91 yds @ \$24.30 - \$127,451.31 Overburden - 2175 yds @ \$7.91 -\$17,204.25	1	503,070.71	503,070.71
UST Removal Costs Form Removal of 0 gal USTS \$0/UST	1	0.00	0.00
Consulting Personnel Costs Form (As broken down on the Consulting Personnel Costs Form)	1	43,406.68	43,406.68
Consultant's Material Costs Form (As broken down on the Consultant's Material Costs Form)	1	2,269.20	2,269.20
Handling Charges (As broken down on the Handling Charges Form)	1	10,492.15	10,492.15

TOTAL AMOUNT 577,244.80

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter	
Chemical Analysis						
BETX Soil with MTBE EPA 8260 17,8,7,12,15	59	X	103.26	=	\$6,092.34	
BETX Water with MTBE_EPA 8260		X	111 27/45 394 39	% = %		
COD (Chemical Oxygen Demand)		X		=	, , , , , , , , , , , , , , , , , , ,	
Corrosivity		X	2007/2008/05/05/05/05	7 = 5		
Flash Point or Ignitability Analysis EPA 1010		Х		=	200000000000000000000000000000000000000	
Fraction Organic Carbon Content (foc) ASTM-D 2974-00		X		2000 C	100 100 100 100 100	
Fat, Oil, & Grease (FOG)		Х		=		
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734.Appendix B		х		=		
Dissolved Oxygen (DO)		Х		=		
Paint Filter (Free Liquids)		X		=		
PCB / Pesticides (combination)		Х		=		
PCBs		×X.		"		
Pesticides		X		=		
рН	3 3 3 3 1 1 1 1 1 1 1 1	* X		=	Control Service Control	
Phenol		X		=		
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270 [7,8,7]	59	X	184.66	=	\$10,894.94	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=		
Reactivity		X		= 7		
SVOC - Soil (Semi-Volatile Organic Compounds)		Х		=		
SVOC - Water (Semi-Volatile Organic Compounds)		X		=		
TKN (Total Kjeldahl) "nitrogen"		Х		=		
TPH (Total Petroleum Hydrocarbons)		X				
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		Х		=		
VOC (Volatile Organic Compounds) - Water		X				
BTEX+MTBE, Solid by GC/MS		Х		=		
8270 Semi-Volatile Organics, Solid by GC/MS SIMS		X		=		
		Х		=		
		X		-		
		Х		=		
Geo-Technical Analysis					,	
Soil Bulk Density (pb) ASTM D2937-94		Х		=		
Ex-situ Hydraulic Conductivity / Permeability		X			20032000	
Moisture Content (w) ASTM D2216-92 / D4643-93		Х		=		
Porosity		X		2 E	\$ 2 0 0 0 0 0 0	
Rock Hydraulic Conductivity Ex-situ		Х		=		
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X	7.78.48.48.68.89	/ = 3		
Soil Classification ASTM D2488-90 / D2487-90		Х		=		
Soil Particle Density (ps) ASTM D854-92		X		-		
		Х		=		
		Х		7		
		Х		=		

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X			
Soil preparation fee for Metals Total Soil (one fee per soil sample)		Х		=	
Water preparation fee for Metals Water (one fee per water sample)		X			
Arsenic TCLP Soil		X		(
Arsenic Total Soil		X		=	
Arsenic Water		X	15.92	•	20.00.00 Street & C
Barium TCLP Soil		Х		=	
Barium Total Soil		X		3 = 35	
Barium Water		Х		=	
Cadmium TCLP Soil		X	18900 3005 300	-	
Cadmium Total Soil		Х		=	
Cadmium Water		×X	and the operations	72 = 7-8	
Chromium TCLP Soil		Х		=	
Chromium Total Soil	3 3 3 5 5 3 3	X		=	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Chromium Water		Х		=	
Cyanide TCLP Soil		Х	7575 7 G 2 6	=	
Cyanide Total Soil		Х		=	
Cyanide Water		X		=	545 / 62446
Iron TCLP Soil		Х		=	
Iron Total Soil		X		=	
Iron Water		Х		=	
Lead TCLP Soil		X			
Lead Total Soil		Х		=	
Lead Water		X			
Mercury TCLP Soil		Х		=	
Mercury Total Soil		X		The Course	
Mercury Water		Х		=	
Selenium TCLP Soil		X		- 32	
Selenium Total Soil		Х		=	
Selenium Water		×X	44,45,45,45,45	i e	16 S - 81 10 30 30 30 3
Silver TCLP Soil		Х		=	
Silver Total Soil		X		. = .	
Silver Water		Х		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		-	3355333
Metals Total Soil (a combination of all metals) RCRA		Х		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		= 2 2 3	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	59	X	12.12	1	\$715.08
Sample Shipping per sampling event ¹	5	Х	60.74	=	\$303.70

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 18,006.06



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Matt Rives

Attn: Phone:

(217) 670-1916

Invoice Number 18001695

Invoice Date:

May 18, 2018

Due Date:

June 18, 2018

F0908004 / Parkers Gas & More Clayton,

Invoice Total:

\$5,042.54

 ${
m IL}$

PO:

Received:

Project:

05/11/2018

Work Order(s): 1

18E0317

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
17 /	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
17	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,808.46
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
17	SW 8270C PNA [5 day]	Solid	\$190.24	\$3,234.08

Client #:

2550065

Page 1 of 1



PDC Laboratories, Inc.

INVOICE

Remit To:

Attn:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To: Chase Environmental

2701 E Ash

Springfield, IL 62704

Matt Rives

Phone: (217) 670-1916 Invoice Number 18001696

Invoice Date: May 18, 2018

Due Date: June 18, 2018

Project: F0908004 / Parkers Gas & More Clayton,

IL

PO:

Received:

05/11/2018

Work Order(s): 18E0318

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
8	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
8	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$851.04
7	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
8	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,521.92

Invoice Total:

\$2,372.96

Job#__

Equip#:

Account#:

Cost Code#: 90 Approved By: M Date: 5/23/18

Parkers Gassmore

JPMORGAN CHASE & CO. Fling: Received, Clerk's Office 10/23/2020

Post date: 06/25/2018

Amount: \$13371.58

CHASE ENVIRONMENTAL GROUP, INC.

1145 WATTERSON CT.

145 Mary Property Amount of the state of

Show: Current Register | Checking Account: CHASE BANK | Checks: 93188

Electronic Filing Received Pletk's Office 10/23/2020

8/2/2018

Account: CHASE BANK - Chase Bank

Payable/ Workers State
 Check R
 Date
 Period
 Vendor Number and Name

 93188 R
 6/20/2018
 Jun, 2018
 PDC LAB
 PDC Laboratories, Inc.
 Payroll 5,042.54 2,372.96 425.52 0.00 0.00 Cash -5,042.54 -2,372.96 -425.52 <u>Tax</u> 0.00 <u>Voucher Invoice</u> 15915 <u>I8001695</u> Discount Comp. 0.00 0.00 Accounts Receivable 15916 I8001696 0.00 0.00 PO Box 9071 16366 I8002216 0.00 0.00 0.00 Peoria, IL 61612-9071 16367 I8002207 16368 I8002214 4,998.66 531.90 13,371.58 -4,998.66 -531.90 -13,371.58 0.00 0.00 0.00 0.00 $\frac{0.00}{0.00}$ 0.00 0.00 0.00 Account CHASE BANK - Chase Bank 13,371.58 0.00 -13,371.58 0,00 0.00 0.00 -13,371.58 13,371.58 0.00 0.00 0.00 0.00

Page 1 8/2/18 16:55 LO 12.0.180724



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Attn:

Matt Rives

Phone:

(217) 670-1916

Invoice Number I8001802

Invoice Date:

May 23, 2018

Due Date:

June 22, 2018

F0908004-Parkers / Clayton, IL

PO: Received:

Project:

.

05/15/2018

Work Order(s):

18E0371

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
7	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
7/	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$744.66
4 /	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
7	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,331.68

Invoice Total:

\$2,076.34

Depart: 6037

Job# F096804P, F

Equip#:

Account#: 90

Cost Code#:

Approved By: LX

Date: 7/74/18

JPMORGAN CHASE & CO. Filing: Received, Clerk's Office 10/23/2020

Post date:	06/19/2018	Account:	979089729	
Amount:	\$ 2076.34	Check Number:	93128	
THE SUM OF TW TO THE COORER PDC Laboratorie Accounts Receiv PO Box 9071 Peorie, IL 61612	able 19071	93128 93100 To receive the second reducting placebook. Some large of concess of females of concess of females of concess of females of concess of females of concess of females of females of concess of female	Sec: 44 Dep: 005178 Date: 06/19/18	Egy gegosit Only to : Coulter Companies Inc Coulter Companies Inc Haster Deposited by: Do not wante, staup on sign below this the



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071

Peoria, IL 61612-9071

217.753.1148

217.733.1146

2701 E Ash

Springfield, IL 62704

Chase Environmental

Attn:

Invoice To:

Matt Rives

Phone: (217) 670-1916

Invoice Number I8001874

Invoice Date:

May 29, 2018

Due Date:

June 28, 2018

F0908004P.F Parkers: Clayton, IL

PO:

Received:

Project:

05/21/2018

Work Order(s):

18E0510

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
12	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
12/	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,276.56
12	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
12	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,282,88

Invoice Total:

\$3,559.44

Job# <u>FOTOC</u>
Equip#:
Account#:
Cost Code#: <u>40</u>

Approved By

Jay 30

JPMORGAN CHASE Electronic Filing: Received, Clerk's Office 10/23/2020

Post date: 07/05/2018
Amount: \$ 3559.44

įν'.		249
	CHASE ENVIRONMENTAL GROUP, INC. LOUSVELE, ECHILLOY 40592399 (62) 251-455 DATE MAGANT	-6y -1
PAY TO THE DADES	THE SUM OF THREE THOUSAND FIVE HUNDRED FIFTY NINE DOLLARS AND 41 CENTS POC Laboratories, Inc.	
5	Accounts Receivable PO Box 9071 Peoria, IL 51612-9071 American State Sta	<u> </u>
	#093249# (#083000137# 9?9089?29#	



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ang si ta Santa santa Santa santa santa santa santa santa santa santa santa santa santa santa santa santa santa santa sa		40 : 005221 :: 07/05/18	Deposited by: DO NOT WRITE, 81/ **RESERVED FOR	For Deposit Only to Couler Companies Couler Companies
- Saq 40 07/05/19 Dep 00!	5221 AQ:1 Quet.51	N69 Uppr	MP OR SIGN BELOW THIS LINE	o : es inc



PDC Laboratories, Inc.

INVOICE

Remit To:

Accounts Receivable

PDC LABORATORIES - SPRINGFIELD, IL

PO BOX 9071 Peoria, IL 61612-9071

217.753.1148

Invoice To:

Attn:

Chase Environmental

2701 E Ash

Springfield, IL 62704

Matt Rives

Phone: (217) 670-1916 Invoice Number I8001884

Invoice Date:

May 30, 2018

Due Date:

June 29, 2018

F0908004P.F Parkers: Clayton, IL

PO:

Received:

Project:

05/21/2018

Work Order(s):

18E0511

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
15	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
15	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,595.70
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
15	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,853.60

Invoice Total:

\$4,449.30

Depart: .032
Job# F090804P, F
Equip#:
Account#:
Cost Code#: 90
Approved By: MC
Date: 5/36/18
Pay 30

CHASE ENVIRONMENTAL GERECTION FILING: Received, Clerk's Office 10/23/2020

93517

PDC Laboratories, Inc. Accounts Receivable PO Box 9071

Check: 93517

Date: 8/8/2018 Vendor: PDC LAB

Peoria, IL 61612-9071

Invoice

8001884

P.O. Num.

Invoice Amt 4,449.30

Prior **Balance** 4,449.30

Retention 0.00 **Discount** 0.00

Amt. Paid 4,449.30

4,449,30

4,449.30

0.00

0.00

4,449.30

CHASE ENVIRONMENTAL GROUP, INC

11450 WATTERSON-CT LOUISVILLE, KENTUCKY-40299-2389 (502) 267-1455

JPMorgan Chase Bank, N.A www.Chase.com 21-13/830

CHASE

93517

DATE

AMOUNT

8/8/2018

THE SUM OF FOUR THOUSAND FOUR HUNDRED FORTY NINE DOLLARS AND 30 CENTS ***

PAY -TO THE ORDER

PDC Laboratories, Inc. Accounts Receivable = PO Box 9071

Peoria, IL 61612-9071

#093517# 1#083000137#

979089729

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc.

Accounts Receivable PO Box 9071

Peoria, IL 61612-9071

Invoice

8001884

P.O. Num.

Invoice Amt 4,449.30

4,449.30

Prior **Balance** 4,449.30

4,449.30

Retention 0.00

0.00

Discount 0.00

Check: 93517

Vendor: PDC LAB

Date: 8/8/2018

Amt. Paid 4,449.30

0.00 4,449.30

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,175.67	69.25	\$358,415.15

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,244.91	24.30	\$127,451.31
erburden Removal and Retu	LL.	123,695

Overburden Removal and Return:

some backfill provided free of charge

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
2,175.00	7.91	\$17,204.25

B. Alternative Technology

Alternati Selected	520.195 TON 149.74 42.58 165.51 162.37 520.20	
Total No Total Re Total Co	3485.31 270.11 (TAA 7.75%) \$3>55.42	



Remediation and Disposal Costs Form

C.	Groundwater	Remediation	and/or Free	Product	Removal	System
----	-------------	-------------	-------------	----------------	---------	--------

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

☐ Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)
		.00

E. Drum Disposal

☐ Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Di	sposal Costs	.00

Total Remediation and Disposal Costs:	\$503,070.71
	499, 315, 29

108417BA18.A.1.320.1.8.0.470 - dataprose.com

CBI071017ML86101 -



HICKORY FELESTRANIS Filling: Received, Cferk's Office PO BOX 9071 PEORIA, IL 61612-9071

SERVICE ADDRESS PARKER'S GAS AND MORE 101 E OUTER BELT DR CLAYTON IL 62324

eln10/23/2020	5/15/2018
INVOICE #	3865807
ACCOUNT #	12-0000340
PO#	F0908004
PARTIES PARTIES	0/4=/00/0

DUE DATE 6/15/2018

DATE	DESCRIPT	ION	QTY	RATE	TOTAL
5/01/2018	NON SPCL WASTE TONS	TKT# 0144690	17.30	17.000	294.10
5/01/2018	NON SPCL WASTE TONS	TKT# 0144691	18.07	17.000	307.19
5/01/2018	NON SPCL WASTE TONS	TKT# 0144692	19.59	17.000	333.03
5/01/2018	NON SPCL WASTE TONS	TKT# 0144693	17.83	17.000	303.11
5/01/2018	NON SPCL WASTE TONS	TKT# 0144694	18.86	17.000	320.62
5/01/2018	NON SPCL WASTE TONS	TKT# 0144695	15.39	17.000	261.63
5/01/2018	NON SPCL WASTE TONS	TKT# 0144696	18.22	17.000	309.74
5/01/2018	NON SPCL WASTE TONS	TKT# 0144697	16.39	17.000	278.63
5/01/2018	NON SPCL WASTE TONS	TKT# 0144703	18.56	17.000	315.52
5/01/2018	NON SPCL WASTE TONS	TKT# 0144704	20.92	17.000	355.64
5/01/2018	NON SPCL WASTE TONS	TKT# 0144706	17.14	17.000	291.38
5/01/2018	NON SPCL WASTE TONS	TKT# 0144708	20.23	17.000	343.91
5/01/2018	NON SPCL WASTE TONS	TKT# 0144711	17.64	17,000	299.88
5/01/2018	NON SPCL WASTE TONS	TKT# 0144713	18.29	17.000	310.93
5/01/2018	NON SPCL WASTE TONS	TKT# 0144714	19.13	17.000	325.21
5/01/2018	NON SPCL WASTE TONS	TKT# 0144716	17.27	17.000	293.59
5/01/2018	NON SPCL WASTE TONS	TKT# 0144724	19.24	17.000	327.08
5/01/2018	NON SPCL WASTE TONS	TKT# 0144727	18.05	17.000	306.85
5/01/2018	NON SPCL WASTE TONS	TKT# 0144729	16.73	17.000	284.41
5/01/2018	NON SPCL WASTE TONS	TKT# 0144731	18.33	17.000	311.61
5/01/2018	NON SPCL WASTE TONS	TKT# 0144732	17.02	17.000	289.34
5/01/2018	NON SPCL WASTE TONS	TKT# 0144735	17.55	17.000	298.35
5/01/2018	NON SPCL WASTE TONS	TKT# 0144737	18.24	17.000	310.08
5/01/2018	NON SPCL WASTE TONS	TKT# 0144738	16.58	17.000	281.86
5/01/2018	NON SPCL WASTE TONS	TKT# 0144752	19.92	17.000	338.64
5/01/2018	NON SPCL WASTE TONS	TKT# 0144753	18.67	17.000	317.39
5/01/2018	NON SPCL WASTE TONS	TKT# 0144754	17.94	17.000	304.98
5/01/2018	NON SPCL WASTE TONS	TKT# 0144762	17.58	17.000	298.86
5/01/2018	NON SPCL WASTE TONS	TKT# 0144763	16.98	17.000	288.66
5/01/2018	NON SPCL WASTE TONS	TKT# 0144768	20.43	17.000	347.31
5/01/2018	NON SPCL WASTE TONS	TKT# 0144773	19.40	17.000	329.80
5/01/2018 5/02/2018	NON SPCL WASTE TONS	TKT# 0144775	19.24	17.000	327.08
	NON SPCL WASTE TONS	TKT# 0144783	17.21	17.000	292.57
5/02/2018 5/02/2018	NON SPCL WASTE TONS	TKT# 0144784 TKT# 0144785	16.82	17.000	285.94
5/02/2018	NON SPCL WASTE TONS	TKT# 0144786	17.98 17.82	17.000	305.66
5/02/2018	NON SPCL WASTE TONS	TKT# 0144789	17.76	17.000	302.94
5/02/2018	NON SPCE WASTE TONS	and the state of t			301.92
		continu	ed on next	page	
		(California de la California			

MESSAGES

Please call 309-688-0760 if you have any questions. You may pay on-line at www.pdcarea.com.

Your access code is 0561155.

To make changes to your account please call the number shown above or email us at customerservice@pdcarea.com.

Late accounts are subject to a monthly finance charge of 1.5% and service interruption.

125,410.70+17=7,377.10 7,377-10 -1.5= 4,918.07

If the Invoice Total differs from the Total Balance Due, please check your records or contact Customer Service with questions.

Invoice Total: \$125,410,70 Total Balance Due: -\$7,189.30

🖖 PLEASE FOLD ON PERFORATION BEFORE TEARING - RETURN BOTTOM PORTION WITH YOUR PAYMENT 🖖



HICKORY RIDGE LANDFILL PO BOX 9071 PEORIA, IL 61612-9071



**SINGLE-PIECE 2 SGL 108417BA18-A-1 320 1 SP 0.470

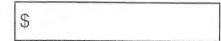
ր[[լիե][իկս]իիկեներին անականիկին հանդիկի CHASE ENVIRONMENTAL GROUP

MATT RIVES 2701 E ASH ST SPRINGFIELD IL 62703-5832

Account #	Due Date	Invoice Amount
12-0000340	6/15/2018	\$125,410.70

INVOICE DATE: 5/15/2018 INVOICE # 3865807

> Show Amount Paid Here



Make checks payable to: PDC/AREA Companies

||ոսև||Արիդյ||իր|ԱպիսկակիգկիԱկեոդիդյել

PDC/AREA COMPANIES 32289 COLLECTION CENTER DR CHICAGO IL 60693-0322



HICKORY RIDGE LANDFILL Filing: Received, CFerk's Office M0/28/2020 PO BOX 9071 PEORIA, IL 61612-9071

5/15/2018 3865807

ACCOUNT # PO#

12-0000340 F0908004

DUE DATE

6/15/2018

SERVICE ADDRESS PARKER'S GAS AND MORE 101 E OUTER BELT DR

DATE	DESCRIPTIO	NC	QTY	RATE	TOTAL
5/02/2018	NON SPCL WASTE TONS 1	ГКТ# 0144793	22.88	17.000	388.96
5/02/2018		TKT# 0144796	19.09	17.000	324.53
5/02/2018 5/02/2018	1	ГКТ# 0144798 ГКТ# 0144803	17.39 21.98	17.000 17.000	295.63 373.66
5/02/2018	•	ГКТ# 0144804	21.60	17.000	367.20
5/02/2018		FKT# 0144806	22.23	17.000	377.91
5/02/2018 5/02/2018	•	FKT# 0144808 FKT# 0144810	18.66 19.55	17.000 17.000	317.22 332.35
5/02/2018		FKT# 0144812	20.30	17.000	345.10
5/02/2018	RATCLIFF 99 TKT# 014				
5/02/2018 5/02/2018	•	FKT# 0144815 FKT# 0144817	18.65 19.47	17.000 17.000	317.05 330.99
5/02/2018	•	KT# 0144820	21.03	17.000	357.51
5/02/2018		KT# 0144821	20.86	17.000	354.62
5/02/2018 5/02/2018	L	FKT# 0144824 FKT# 0144825	20.19 19.64	17.000 17.000	343.23 333.88
5/02/2018	■	KT# 0144826	17.93	17.000	304.81
5/02/2018		KT# 0144827	19.74	17.000	335.58
5/02/2018 5/02/2018		TKT# 0144828 TKT# 0144830	19.30 20.23	17.000 17.000	328.10 343.91
5/02/2018		KT# 0144846	20.06	17.000	341.02
5/02/2018	1	KT# 0144847	19.80	17.000	336.60
5/02/2018 5/02/2018		KT# 0144850 KT# 0144852	18.75 18.63	17.000 17.000	318.75
5/02/2018		KT# 0144852 KT# 0144853	20.00	17.000	316.71 340.00
5/02/2018	NON SPCL WASTE TONS T	KT# 0144857	20.17	17.000	342.89
5/02/2018 5/02/2018	■	KT# 0144858 KT# 0144859	19.74 19.37	17.000 17.000	335.58
5/03/2018		KT# 0144833	20.19	17.000	329.29 343.23
5/03/2018	NON SPCL WASTE TONS T	KT# 0144873	21.01	17.000	357.17
5/03/2018	l	KT# 0144874	20.91	17.000	355.47
5/03/2018 5/03/2018	l	KT# 0144876 KT# 0144885	18.36 20.59	17.000 17.000	312.12 350.03
5/03/2018	NON SPCL WASTE TONS T	KT# 0144886	20.78	17.000	353.26
5/03/2018		KT# 0144888	19.16	17.000	325.72
5/03/2018 5/03/2018		KT# 0144889 KT# 0144896	19.56 18.28	17.000 17.000	332.52 310.76
5/03/2018	NON SPCL WASTE TONS T	KT# 0144897	19.22	17.000	326.74
5/03/2018		KT# 0144898	19.23	17.000	326.91
5/03/2018 5/03/2018		KT# 0144899 KT# 0144903	17.90 17.99	17.000 17.000	304.30 305.83
5/03/2018	NON SPCL WASTE TONS T	KT# 0144907	18.97	17.000	322.49
5/03/2018		KT# 0144908	17.70	17.000	300.90
5/03/2018 5/03/2018		KT# 0144909 KT# 0144917	19.41 18.98	17.000 17.000	329.97 322.66
5/03/2018	NON SPCL WASTE TONS T	KT# 0144919	17.87	17.000	303.79
5/03/2018		KT# 0144920	19.40	17.000	329.80
5/03/2018 5/03/2018		KT# 0144922 KT# 0144943	18.66 20.25	17.000 17.000	317.22 344.25
5/03/2018	NON SPCL WASTE TONS T	KT# 0144944	17.36	17.000	295.12
5/03/2018		KT# 0144945	18.68	17.000	317.56
5/03/2018 5/04/2018		KT# 0144946 KT# 0144960	19.21 19.65	17.000 17.000	326.57 334.05
5/04/2018		KT# 0144961	21,81	17.000	370.77
5/04/2018		KT# 0144964	21.42	17.000	364.14
5/04/2018 5/04/2018		KT# 0144965 KT# 0144970	21.15 20.85	17.000 17.000	359.55 354.45
5/04/2018	NON SPCL WASTE TONS T	KT# 0144971	20.31	17.000	345.27
5/04/2018	NON SPCL WASTE TONS T	KT# 0144973	19,31	17.000	328.27
5/04/2018 5/04/2018		KT# 0144976 KT# 0144979	19.69 20.81	17.000 17.000	334.73 353.77
5/04/2018	•	KT# 0144981	19,37	17.000	329.29
5/04/2018	NON SPCL WASTE TONS T	KT# 0144983	21.34	17.000	362.78
5/04/2018	NON SPCL WASTE TONS T	KT# 0144984	20.40	17.000	346.80
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F0908004



HICKORY FIDGE LANDFILE Filing: Received CFerk's Office M0/23/2020 PO BOX 9071 PEORIA, IL 61612-9071

5/15/2018 3865807 12-0000340 PO#

DUE DATE 6/15/2018

SERVICE ADDRESS PARKER'S GAS AND MORE 101 E OUTER BELT DR

SOB/2018 NON SPCL WASTE TONS TKT# 0145221 17.43 17.000 3968.51 5/08/2018 NON SPCL WASTE TONS TKT# 0145222 17.43 17.000 318.41 5/08/2018 NON SPCL WASTE TONS TKT# 0145222 18.73 17.000 318.41 5/08/2018 NON SPCL WASTE TONS TKT# 0145227 18.18 77.000 303.05 5/08/2018 NON SPCL WASTE TONS TKT# 0145227 18.18 77.000 303.05 5/08/2018 NON SPCL WASTE TONS TKT# 0145227 18.18 77.000 303.05 5/08/2018 NON SPCL WASTE TONS TKT# 0145227 18.18 77.000 303.05 5/08/2018 NON SPCL WASTE TONS TKT# 0145224 19.45 77.000 303.05 5/08/2018 NON SPCL WASTE TONS TKT# 0145243 17.56 17.000 303.65 5/08/2018 NON SPCL WASTE TONS TKT# 0145245 17.54 17.000 303.65 5/08/2018 NON SPCL WASTE TONS TKT# 0145245 17.54 17.000 303.65 5/08/2018 NON SPCL WASTE TONS TKT# 0145245 17.54 17.000 327.08 5/08/2018 NON SPCL WASTE TONS TKT# 0145248 17.59 17.000 327.08 5/08/2018 NON SPCL WASTE TONS TKT# 0145250 20.02 17.000 340.34 5/08/2018 NON SPCL WASTE TONS TKT# 0145251 17.67 70.000 340.34 5/08/2018 NON SPCL WASTE TONS TKT# 0145263 20.02 17.000 340.34 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.01 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.21 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.21 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.21 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.21 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145267 20.21 17.000 340.35 5/08/2018 NON SPCL WASTE TONS TKT# 0145271 18.11 17.000 363.27 15.00/2018 NON SPCL WASTE TONS TKT# 0145271 18.11 17.000 363.27 15.00/2018 NON SPCL WASTE TONS TKT# 0145281 18.33 17.000 340.35 15.00/2018 NON SPCL WASTE TONS TKT# 0145281 18.33 17.000 340.35 15.00/2018 NON SPCL WASTE TONS TKT# 0145321 18.35 17.000 340.35 15.00/2018 NO	DATE	યગ કલા છે.	ION	QTY	RATE	TOTAL
5/08/2018 NON SPCL WASTE TONS TKT# 0145222 18,73 17,000 318,41	5/08/2018	NON SPCL WASTE TONS	TKT# 0145212	21.09	17.000	358.53
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5/10/2018 NON SPCL WASTE TONS TKT# 0145416 19.20 17.000 326.40 5/10/2018 NON SPCL WASTE TONS TKT# 0145421 19.90 17.000 338.30		·				
	5/10/2018	NON SPCL WASTE TONS	TKT# 0145416	19.20	17.000	326.40
continued on next page	5/10/2018	NON SPCL WASTE TONS				338.30
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(continued)

5/15/2018 INVOICE # 3865807 **ACCOUNT #** 12-0000340 PO# F0908004

DUE DATE 6/15/2018

SERVICE ADDRESS PARKER'S GAS AND MORE 101 E OUTER BELT DR

DATE	DESCRIPT	ION	ατγ	RATE	TOTAL
5/15/2018	NON SPCL WASTE TONS	TKT# 0145702	20.83	17.000	354.11
5/15/2018	NON SPCL WASTE TONS	TKT# 0145705	20,29	17.000	344.93
5/15/2018	NON SPCL WASTE TONS	TKT# 0145706	19.47	17.000	330.99
5/15/2018	NON SPCL WASTE TONS	TKT# 0145707	17.81	17.000	302.77
5/15/2018	NON SPCL WASTE TONS	TKT# 0145717	17.89	17.000	304.13
5/15/2018	NON SPCL WASTE TONS	TKT# 0145720	18.92	17.000	321.64
5/15/2018	NON SPCL WASTE TONS	TKT# 0145722	20.20	17.000	343.40
5/15/2018	NON SPCL WASTE TONS	TKT# 0145724	19.28	17.000	327.76
5/15/2018	NON SPCL WASTE TONS	TKT# 0145730	19.06	17.000	324.02
5/15/2018	NON SPCL WASTE TONS NON SPCL WASTE TONS	TKT# 0145733	16.78	17.000	285.26
5/15/2018 5/15/2018	NON SPCL WASTE TONS	TKT# 0145734 TKT# 0145739	20.17 17.79	17.000 17.000	342.89 302.43
5/15/2018	NON SPCL WASTE TONS	TKT# 0145754	18.88	17.000	320.96
5/15/2018	NON SPCL WASTE TONS	TKT# 0145755	19.19	17.000	326.23
5/15/2018	NON SPCL WASTE TONS	TKT# 0145756	19.74	17.000	335.58
5/15/2018	NON SPCL WASTE TONS	TKT# 0145757	20.66	17.000	351.22
5/15/2018	NON SPCL WASTE TONS	TKT# 0145763	21.16	17.000	359.72
5/15/2018	NON SPCL WASTE TONS	TKT# 0145765	18.96	17.000	322.32
5/15/2018	NON SPCL WASTE TONS	TKT# 0145774	18.18	17.000	309.06
5/15/2018	NON SPCL WASTE TONS	TKT# 0145780	18.84	17.000	320.28
5/15/2018	NON SPCL WASTE TONS	TKT# 0145799	19.97	17.000	339.49
5/15/2018	NON SPCL WASTE TONS	TKT# 0145801	19.95	17.000	339.15
5/15/2018	NON SPCL WASTE TONS	TKT# 0145804	18,25	17.000	310.25
5/15/2018 5/15/2018	NON SPCL WASTE TONS NON SPCL WASTE TONS	TKT# 0145805 TKT# 0145807	19.84 18.87	17.000 17.000	337.28 320.79
5/15/2018	NON SPCL WASTE TONS	TKT# 0145807	17.26	17,000	293.42
5/15/2018	NON SPCL WASTE TONS	TKT# 0145808	19.72	17.000	335.24
5/16/2018	NON SPCL WASTE TONS	TKT# 0145816	19.06	17.000	324.02
5/16/2018	NON SPCL WASTE TONS	TKT# 0145829	19.68	17.000	334.56
5/16/2018	NON SPCL WASTE TONS	TKT# 0145832	19.68	17.000	334.56
5/16/2018	NON SPCL WASTE TONS	TKT# 0145834	20.48	17.000	348.16
5/16/2018	NON SPCL WASTE TONS	TKT# 0145835	19.32	17.000	328.44
5/16/2018	NON SPCL WASTE TONS	TKT# 0145837	21.39	17.000	363.63
5/16/2018	NON SPCL WASTE TONS	TKT# 0145838	23.03	17.000	391.51
5/16/2018	NON SPCL WASTE TONS	TKT# 0145839	19.77	17.000	336.09
5/16/2018	NON SPCL WASTE TONS	TKT# 0145841	20.81	17.000	353.77
5/16/2018	NON SPCL WASTE TONS NON SPCL WASTE TONS	TKT# 0145853	22.31	17.000	379.27
5/16/2018 5/16/2018	NON SPCL WASTE TONS	TKT# 0145854 TKT# 0145857	19.62 21.65	17.000 17.000	333.54 368.05
5/16/2018	NON SPCL WASTE TONS	TKT# 0145860	20.60	17.000	350.20
5/16/2018	NON SPCL WASTE TONS	TKT# 0145862	21.20	17.000	360.40
5/16/2018	NON SPCL WASTE TONS	TKT# 0145866	19.77	17.000	336.09
5/16/2018	NON SPCL WASTE TONS	TKT# 0145869	21.75	17.000	369.75
5/16/2018	NON SPCL WASTE TONS	TKT# 0145873	16.77	17.000	285.09
5/16/2018	NON SPCL WASTE TONS	TKT# 0145875	19.61	17.000	333.37
5/16/2018	NON SPCL WASTE TONS	TKT# 0145890	22.28	17.000	378.76
5/16/2018	NON SPCL WASTE TONS	TKT# 0145894	18.81	17.000	319.77
5/16/2018	NON SPCL WASTE TONS	TKT# 0145898	19.17	17.000	325.89
5/16/2018	NON SPCL WASTE TONS	TKT# 0145899	19.45	17,000	330.65
5/16/2018	NON SPCL WASTE TONS NON SPCL WASTE TONS	TKT# 0145901	17.32	17.000	294.44
5/16/2018	NON SPCL WASTE TONS	TKT# 0145910 TKT# 0145911	18.67 20.20	17.000 17.000	317.39 343.40
5/16/2018	NON SPCL WASTE TONS	TKT# 0145911	18.60	17.000	343.40 316.20
5/16/2018	NON SPCL WASTE TONS	TKT# 0145918	19.76	17.000	335.92
5/16/2018	NON SPCL WASTE TONS	TKT# 0145943	22.03	17.000	374.51
5/16/2018	NON SPCL WASTE TONS	TKT# 0145944	17.86	17.000	303.62
5/16/2018	NON SPCL WASTE TONS	TKT# 0145947	19.01	17.000	323.17
5/16/2018	NON SPCL WASTE TONS	TKT# 0145949	16.84	17.000	286.28
5/16/2018	NON SPCL WASTE TONS	TKT# 0145950	18.22	17.000	309.74
5/16/2018	NON SPCL WASTE TONS	TKT# 0145954	19.43	17.000	330.31
5/16/2018	NON SPCL WASTE TONS	TKT# 0145957	20.25	17.000	344.25
5/16/2018	NON SPCL WASTE TONS	TKT# 0145958	16.03	17.000	272.51
5/16/2018	NON SPCL WASTE TONS	TKT# 0145959	19.25	17.000	327.25
5/17/2018	NON SPCL WASTE TONS	TKT# 0145965	18.82	17.000	319.94
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Electronic Filing: Received | Clerk's Office

PO BOX 9071 PEORIA, IL 61612-9071

SERVICE ADDRESS PARKER'S GAS AND MORE 101 E OUTER BELT DR CLAYTON IL 62324

5/31/2018
3887553
12-0000340
F0908004
6/30/2018

DATE	DESCRIPTION		ату	RATE	TOTAL
	NON SPCL WASTE TONS TKT# (NON SPCL WASTE TONS T	0146094 0146099 0146101 0146112 0146115 0146121 0146124 0146124 0146126 0146127 0146130 0146142 0146144 0146157 0146159 0146169	19.46 20.09 19.86 21.91 20.59 19.23 18.50 20.71 18.47 19.46 20.34 18.15 17.79 18.19 20.48 17.31 17.85 19.35 18.73	17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000	330.82 341.53 337.62 372.47 350.03 326.91 314.50 352.07 313.99 330.82 345.78 308.55 302.43 309.23 348.16 294.27 303.45 328.95 318.41
5/18/2018 5/18/2018	NON SPCL WASTE TONS TKT# 0	THE REPORT OF THE PARTY OF THE	9.94	17.000 17.000	
	Depart:	037	-		

MESSAGES

Please call 309-688-0760 if you have any questions. You may pay on-line at www.pdcarea.com.

Your access code is 0561155.

To make changes to your account please call the number shown above or email us at customerservice@pdcarea.com.

Late accounts are subject to a monthly finance charge of 1.5% and service interruption.

6,568.97 ÷ 17 = 386.41 386.41 ÷ 1.5 = 257.61 4,918.67 257.61 5,175.68

If the Invoice Total differs from the Total Balance Due, please check your records or contact Customer Service with questions.

Invoice Total: \$6,568.97

Total Balance Due: -\$620.33

 Ψ PLEASE FOLD ON PERFORATION BEFORE TEARING - RETURN BOTTOM PORTION WITH YOUR PAYMENT Ψ



HICKORY RIDGE LANDFILL PO BOX 9071 PEORIA, IL 61612-9071



AUTOALL FOR AADC 625 45 AADC 1084178A05-A-1 9367 1 AB 0-405

կոնվունների Ոնգրիկինների հետ իրիունին

CHASE ENVIRONMENTAL GROUP MATT RIVES 2701 E ASH ST SPRINGFIELD IL 62703-5832

Account #	Due Date	Invoice Amount
12-0000340	6/30/2018	\$6,568.97

INVOICE DATE: 5/31/2018 INVOICE # 3887553

> Show Amount Paid Here

\$

Make checks payable to: PDC/AREA Companies

32289 COLLECTION CENTER DR CHICAGO IL 60693-0322

Electronic Filing: Received, Clerk's Office 10/23/2020 JPMorgan Chase & Co.

Post date:

04/30/2018

\$ 132600.00

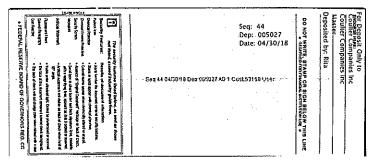
Amount:	\$ 132600.00
THE S POT THE OFFICE HICKORY OFFICE HICKORY OFFICE P.O.	COUSE IN INC. SENVIRONNENTAL GROUP, INC. SENVIRONNENTAL
	#092849# 1083000\$3?i\$ 9?9089?29#

Account:

979089729

Check Number:

92849



Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Commen
2-340		Billing	Informati	on		12-340	nanti fi di ma navi di di angari	راد المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية ا المادية المادية Service	Info	rmation	539 (b)			
HASE 701 E	ENVIRONME ASH FIELD IL 627		OUP			PARKER 101 E OU	'S GAS ANI TER BELT I N IL 62324							
12-340	05/01/2018	144691	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,140	18.07	TN	12- 340	0		
12-340	05/01/2018	144693	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,660	17.83	TN	12- 340	0		
12-340	05/01/2018	144692	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,180	19.59	TN	12- 340	0		
12-340	05/01/2018	144690	РК МТ	NON SPCL WASTE TONS	1	BEAIRO	NONTN	34,600	17.30	TN	12- 340	0		
12-340	05/01/2018	144694	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,720	18.86	TN	12- 340	0		
12-340	05/01/2018	144695	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	30,780	15.39	TN	12- 340	0		
12-340	05/01/2018	144696	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		
12-340	05/01/2018	144697	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	32,780	16.39	TN	12- 340	0		
12-340	05/01/2018	144703	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18,56	TN	12- 340	0		
12-340	05/01/2018	144704	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,840	20,92	TN	12- 340	0		
12-340	05/01/2018	144706	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,280	17.14	TN	12- 340	0		
12-340	05/01/2018	144708	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,460	20.23	TN	12- 340	0		
12-340	05/01/2018	144711	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	35,280	17.64	TN	12- 340	0		
12-340	05/01/2018	144713	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,580	18,29	TN	12- 340	0		
12-340	05/01/2018	144714	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,260	19,13	TN	12- 340	0		
12-340	05/01/2018	144716	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,540	17.27	TN	12- 340	0		
12-340	05/01/2018	144724	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,480	19,24	TN	12- 340	0		
12-340	05/01/2018	144727	PK NT	NON SPCL WASTE TONS	ļ.	BEAIRD	NONTN	36,100	18.05	TN	12- 340	0		
12-340	05/01/2018	144729	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,460	16.73	TN	12- 340	0		
12-340	05/01/2018	144731	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,660	18.33	TN	12- 340	0		
12-340	05/01/2018	144732	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,040	17,02	TN	12- 340	0	:	
12-340	05/01/2018	144735	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,100	17.55	TN	12- 340	0		
12-340	05/01/2018	144737	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,480	18.24	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/01/2018	144738	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	33,160	16.58	TN	12- 340	0	na di sepanji sa mbijanani i i i	
12-340	05/01/2018	144752	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,840	19.92	TN	12- 340	0		
12-340	05/01/2018	144753	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,340	18.67	אד	12- 340	0		
12-340	05/01/2018	144754	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,880	17.94	TN	12- 340	0	4	
12-340	05/01/2018	144763	PK NT	NON SPCL WASTE TONS	[BEAIRD	NONTN	33,960	16.98	TN	12- 340	O	- A A A A A A A A A A A A A A A A A A A	
12-340	05/01/2018	144762	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,160	17.58	TN	12- 340	0		
12-340	05/01/2018	144768	PK NT	NON SPCL WASTE TONS	****	BEAIRD	NONTN	40,860	20,43	TN	12- 340	0		
12-340	05/01/2018	144773	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,800	19.40	TN	12- 340	0		
12-340	05/01/2018	144775	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,480	19.24	TN	12- 340	0	1	
12-340	05/02/2018	144783	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,420	17.21	TN	12- 340	0		
12-340	05/02/2018	144784	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,640	16.82	TN	12- 340	0		
12-340	05/02/2018	144785	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12- 340	0	: 1 :	
12-340	05/02/2018	144786	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,640	17.82	TN	12- 340	0		
12-340	05/02/2018	144789	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	35,520	17,76	TN	12- 340	0	f	
12-340	05/02/2018	144793	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	45,760	22,88	TN	12 - 340	0		
12-340	05/02/2018	144796	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,180	19,09	TN	12 - 340	0		
12-340	05/02/2018	144798	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	34,780	17.39	TN	12- 340	0	: : :	
12-340	05/02/2018	144803	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	43,960	21.98	TN	12- 340	0		
12-340	05/02/2018	144804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,200	21,60	TN	12- 340	0	1	
12-340	05/02/2018	144806	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,460	22.23	TN	12- 340	0	i !	
12-340	05/02/2018	144808	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,320	18.66	TN	12- 340	0		
12-340	05/02/2018	144810	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,100	19.55	TN	12- 340	0		
12-340	05/02/2018	144812	PK NT	NON SPCL WASTE TONS	[BEAIRD	NONTN	40,600	20,30	TN	12- 340	0		RATCLIFF 99
12-340	05/02/2018	144815	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,300	18.65	TN	12- 340	0		
12-340	05/02/2018	144817	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,940	19.47	TN	12- 340	0		
12-340	05/02/2018	144820	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,060	21.03	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	ln/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/02/2018	144821	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,720	20,86	TN	12- 340	0	1	# 10 (10 to 10 to
12-340	05/02/2018	144824	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	40,380	20.19	TN	12- 340	0	i	
12-340	05/02/2018	144825	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,280	19.64	TN	12- 340	0	<u> </u>	
12-340	05/02/2018	144826	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,860	17.93	TN	12 - 340	0		
12-340	05/02/2018	144827	PK NT	NON SPCL WASTE TONS	 	BEAIRD	NONTN	39,480	19.74	TN	12- 340	0		
12-340	05/02/2018	144828	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,600	19,30	TN	12- 340	0	: 	
12-340	05/02/2018	144830	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,460	20.23	TN	12- 340	0]	
12-340	05/02/2018	144846	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,120	20,06	TN	12- 340	o	: :	# h//Wathin'
12-340	05/02/2018	144847	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,600	19.80	TN	12- 340	0	t	
12-340	05/02/2018	144850	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,500	18.75	TN	12- 340	0	<u> </u>	
12-340	05/02/2018	144852	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,260	18,63	TN	12- 340	0		
12-340	05/02/2018	144853	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,000	20,00	TN	12- 340	0	1	
12-340	05/02/2018	144857	PK NT	NON SPCL WASTE TONS	 1	BEAIRD	NONTN	40,340	20.17	TN	12- 340	0		
12-340	05/02/2018	144858	PK NT	NON SPCL WASTE TONS	 1	BEAIRD	NONTN	39,480	19.74	TN	12- 340	0		
12-340	05/02/2018	144859	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,740	19.37	TN	12- 340	0		1
12-340	05/03/2018	144871	PK NT	NON SPCL WASTE TONS	<u> </u>	BEAIRD	NONTN	40,380	20.19	ŤN	12- 340	0	4	
12-340	05/03/2018	144873	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,020	21.01	TN	12- 340	0	e section of the section	
12-340	05/03/2018	144874	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,820	20.91	TN	12- 340	0		NE COLOMBIA COM COLO
12-340	05/03/2018	144876	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	36,720	18.36	TN	12- 340	0	F :	- /
12-340	05/03/2018	144885	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,180	20.59	TN	12- 340	0		
12-340	05/03/2018	144886	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,560	20.78	TN	12- 340	0	E	
12-340	05/03/2018	144888	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,320	19.16	אד	12- 340	0	: <u></u>	
 12 - 340	05/03/2018	144889	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,120	19.56	TN	12- 340	0	· • · · · · · · · · · · · · · · · · · ·	=
12-340	05/03/2018	144896	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,560	18.28	TN	12-	0	<u>-</u>	.
12-340	05/03/2018	144897	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,440	19.22	TN	12- 340	0		<u>.</u>
12-340	05/03/2018	144898	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,460	19.23	TN	12- 340	0	:	

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/03/2018	144899	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,800	17.90	TN	12- 340	**************************************		protesta de
12-340	05/03/2018	144903	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,980	17.99	TN	12- 340	0		
12-340	05/03/2018	144907	PK NT	NON SPCL WASTE TONS		BEAIRD	итиои	37,940	18.97	TN	12- 340	0		
12-340	05/03/2018	144908	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,400	17.70	TN	12- 340	0		
12-340	05/03/2018	144909	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,820	19,41	TN	12- 340	į 0		
12-340	05/03/2018	144917	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,960	18.98	TN	12- 340	0		
12-340	05/03/2018	144919	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,740	17.87	TN	12- 340	[O		
12-340	05/03/2018	144920	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,800	19.40	TN	12- 340	0		
12-340	05/03/2018	144922	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,320	18,66	TN	12- 340	0		
12-340	05/03/2018	144943	PK NT	NON SPCL WASTE TONS	ſ	BEAIRD	NONTN	40,500	20,25	TN	12- 340	o	!	
12-340	05/03/2018	144944	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,720	17.36	TN	12- 340	0	An a promise management	
12-340	05/03/2018	144945	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,360	18.68	TN	12- 340	0		
12-340	05/03/2018	144946	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,420	19.21	TN	12- 340	0		
12-340	05/04/2018	144960	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,300	19,65	TN	12- 340	0)
12-340	05/04/2018	144961	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,620	21.81	TN	12- 340	0	,	
12-340	05/04/2018	144964	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,840	21.42	TN	12- 340	0		
12-340	05/04/2018	144965	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,300	21.15	TN	12- 340	0		
12-340	05/04/2018	144970	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,700	20.85	TN	12- 340	0		
12-340	05/04/2018	144971	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	40,620	20,31	TN	12- 340	. 0		
12-340	05/04/2018	144973	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,620	19.31	TN	12- 340	0	Ţ- ·- ·····	
12-340	05/04/2018	144976	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,380	19.69	TN	12- 340	0		
12-340	05/04/2018	144979	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	41,620	20.81	TN	12- 340	0	i	
12-340	05/04/2018	144981	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,740	19.37	TN	12 - 340	i O		
12-340	05/04/2018	144983	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,680	21.34	TN	12- 340	0	1	
12-340	05/04/2018	144984	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,800	20.40	TN	12- 340	0	1	
12-340	05/04/2018	144989	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,860	19.43	TN	12- 340	o !	i	

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/04/2018	144990	PK NT	NON SPCL WASTE TONS	l I	BEAIRD	NONTN	34,160	17.08	TN	12- 340	i 0	• • • • • • • • • • • • • • • • • • •	
12-340	05/04/2018	144997	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,180	18,09	TN	12- 340	0	· · · · · · · · · · · · · · · · · · ·	
12-340	05/04/2018	145000	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,020	20,51	TN	12- 340	0	i	[
12-340	05/04/2018	145002	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,900	18.45	TN	12- 340	0		
12-340	05/04/2018	145006	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,300	21.15	TN	12- 340	0		
12-340	05/04/2018	145020	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,880	20.44	TN	12- 340	0		
12-340	05/04/2018	145022	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,460	21,23	TN	12- 340	0	***	
12-340	05/04/2018	145024	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,180	19.59	TN	12- 340	0		
12-340	05/04/2018	145025	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,800	20,90	TN	12- 340	0		
12-340	05/04/2018	145029	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,920	19,96	TN	12- 340	0	Ann controller for	
12-340	05/04/2018	145031	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,580	19.29	TN	12- 340	0		
12-340	05/04/2018	145033	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,020	21.51	TN	12- 340	0	! !	
12-340	05/07/2018	145051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21,18	TN	12- 340	0		
12-340	05/07/2018	145055	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,360	22,18	TN	12 - 340	0		
12-340	05/07/2018	145056	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,680	20.84	TN	12- 340	0	1	
12-340	05/07/2018	145060	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,440	21.22	TN	12- 340	0		
12-340	05/07/2018	145061	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	45,660	22.83	TN	12- 340	0		
12-340	05/07/2018	145062	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	45,080	22.54	TN	12- 340	0	4	
12-340	05/07/2018	145064	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,820	21.91	TN	12-	0	-	
12-340	05/07/2018	145066	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,760	19.88	TN	12- 340	0		
12-340	05/07/2018	145070	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,360	20.68	TN	12- 340	0	4	
12-340	05/07/2018	145071	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,960	20.48	TN	12- 340	0	:	
12-340	05/07/2018	145072	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,120	19.56	TN	12 - 340	0	:	
12-340	05/07/2018	145075	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,120	19.56	TN	12- 340	· n	* * * * * * * * * * * * * * * * * * *	
12-340	05/07/2018	145079	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,420	19.71	TN	12- 340	0	÷	
12-340	05/07/2018	145080	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,140	18.57	TN	12- 340	0	:	

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/07/2018	145082	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,820	18.41	אד	12- 340	0		
12-340	05/07/2018	145084	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,360	17,68	TN	12- 340	0		
12-340	05/07/2018	145092	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,700	17.85	TN	12- 340	0	<u> </u>	
12-340	05/07/2018	145093	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,800	19.90	TN	12- 340	0		
12-340	05/07/2018	145094	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,860	16.93	TN	12- 340	0		
12-340	05/07/2018	145098	PK NT	NON SPCL WASTE TONS	L	BEAIRD	NONTN	40,160	20.08	TN	12- 340	0		
12-340	05/07/2018	145109	PK NT	NON SPCL WASTE TONS	ſ	BEAIRD	NONTN	42,780	21,39	TN	12- 340	0		
12-340	05/07/2018	145112	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,900	18,95	TN	12- 340	0		
12-340	05/07/2018	145116	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20,99	TN	12- 340	0		
12-340	05/07/2018	145117	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,260	17.13	TN	12- 340	0		
12-340	05/07/2018	145123	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,820	18.91	TN	12- 340	0		
12-340	05/07/2018	145127	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19,56	! TN	12- 340	0		
12-340	05/07/2018	145128	PK NT	NON SPCL WASTE TONS	 	BEAIRD	NONTN	37,740	18.87	TN	12- 340	0		ļ
12-340	05/07/2018	145132	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,300	19.65	TN	12- 340	; 0		
12-340	05/08/2018	145143	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,660	20,33	TN	12- 340	0		
12-340	05/08/2018	145145	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,620	18.81	TN	12- 340	0		· · · · · · · · · · · · · · · · · · ·
12-340	05/08/2018	145147	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,700	19.85	TN	12- 340	0		
12-340	05/08/2018	145150	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,120	20.06	TN	12- 340	1 0	4	
12-340	05/08/2018	145157	PK NT	NON SPCL WASTE TONS	11	BEAIRD	NONTN	43,500	21.75	TN	12- 340	0	1	
12-340	05/08/2018	145158	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,980	20.99	TN	12- 340	0		
12-340	05/08/2018	145160	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,140	20.07	TN	12- 340	. 0		
12-340	05/08/2018	145162	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,960	20.48	TN	12- 340	0		1
12-340	05/08/2018	145164	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		
12-340	05/08/2018	145167	PK NT	NON SPCL WASTE TONS	; [BEAIRD	NONTN	37,680	18.84	TN	12- 340	0		
12-340	05/08/2018	145168	PK NT	NON SPCL WASTE TONS	L	BEAIRD	NONTN	41,040	20.52	TN	12- 340	0		
12-340	05/08/2018	145169	PK NT	NON SPCL WASTE TONS	V come of the come	BEAIRD	NONTN	41,920	20.96	TN	12- 340	0		E

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/08/2018	145176	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	50,160	25.08	TN	12- 340	0		
12-340	05/08/2018	145177	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,460	22.23	TN	12- 340	0	· [************************************	
12-340	05/08/2018	145179	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	47,820	23.91	TN	12- 340	0		
12-340	05/08/2018	145182	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,800	20,90	TN	12- 340	0		
12-340	05/08/2018	145187	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	45,780	22,89	TN	12- 340	0		
12-340	05/08/2018	145188	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,180	20.09	TN	12- 340	0		
12-340	05/08/2018	145190	PK NT	NON SPCL WASTE TONS	1	8EAIRD	NONTN	40,760	20,38	TN	12- 340	0		
12-340	05/08/2018	145193	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,200	18.10	TN	12- 340	0	<u> </u>	
12-340	05/08/2018	145201	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,280	17.64	TN	12- 340	0		
12-340	05/08/2018	145204	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,400	20.70	TN	12- 340	0	!	
12-340	05/08/2018	145209	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,140	19.07	TN	12- 340	0		!
12-340	05/08/2018	145212	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,180	21,09	TN	12- 340	0		
12-340	05/08/2018	145221	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,860	17.43	TN	12- 340	0	: : :	
12-340	05/08/2018	145222	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,460	18.73	TN	12- 340	0		
12-340	05/08/2018	145226	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,140	19.57	TN	12- 340	0	· · · · · · · · · · · · · · · · · · ·	
12-340	05/08/2018	145227	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,360	18.18	TN	12- 340	0		
12-340	05/09/2018	145239	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,500	17.75	TN	12 - 340	0		
12-340	05/09/2018	145241	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,900	19.45	TN	12- 340	0	1	
12-340	05/09/2018	145243	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,720	17.86	TN	12- 340	0		
12-340	05/09/2018	145245	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,080	17.54	TN	12- 340	0	ģ irini ir k ini i	
12-340	05/09/2018	145247	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,540	20.27	TN	12- 340	0		
12-340	05/09/2018	145248	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,180	17.59	TN	12- 340	0	<u>.</u>	
12-340	05/09/2018	145250	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,480	19.24	TN	12-	0		
12-340	05/09/2018	145251	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,340	17.67	TN	12- 340	0		
12-340	05/09/2018	145260	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,040	20.02		12 - 340			
12-340	05/09/2018	145263	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,760	20.38		 12 - 340	. 0		

Scale Acct	Date	Ticket	Sz/Chg	Description	ln/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/09/2018	145264	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	40,100	20,05	TN	12- 340	0	i : :- ard-septentingsystem://	The state of the s
12-340	05/09/2018	145267	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,420	20.21	TN	12 - 340	0	:	
12-340	05/09/2018	145269	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,740	21.37	TN	12- 340	0		The second of th
12-340	05/09/2018	145271	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,220	18.11	TN	12- 340	0	†	
12-340	05/09/2018	145272	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,820	21.41	TN	12- 340	0		The second secon
12-340	05/09/2018	145273	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,220	17.11	TN	12- 340	0	1	
12-340	05/09/2018	145283	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	28,880	14.44	TN	12- 340	0		es con
12-340	05/09/2018	145288	PK NT	NON SPCL WASTE TONS	ſ	BEAIRD	NONTN	36,920	18.46	TN	12- 340	0	1	
12-340	05/09/2018	145291	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,660	18.33	TN	12- 340	0		
12-340	05/09/2018	145292	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,100	17.05	TN	12- 340	0		
12-340	05/09/2018	145294	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,680	17.84	TN	12- 340	0		:
12-340	05/09/2018	145297	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,480	21,24	TN	12- 340	0	1	;
12-340	05/09/2018	145300	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,200	16.60	TN	12- 340	0		
12-340	05/09/2018	145305	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12- 340	0		
12-340	05/09/2018	145312	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,560	20.28	TN	12- 340	0		**************************************
12-340	05/09/2018	145318	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12- 340	0		; ;
12-340	05/09/2018	145319	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12- 340	0		
12-340	05/09/2018	145317	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,880	18.94	TN	12 - 340	0		\$
12-340	05/09/2018	145322	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,320	19.66	TN	12- 340	0		
12-340	05/09/2018	145326	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,320	20.16	TN	12- 340	0		
12-340	05/09/2018	145328	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,020	18.51	TN	12- 340	0	<u> </u>	
12-340	05/09/2018	145331	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	44,160	22.08	TN	12- 340	0	:	
12-340	05/10/2018	145338	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,800	20.90	TN	12- 340	0		:
12-340	05/10/2018	145340	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,880	20.94	TN	12- 340	0	1	F
12-340	05/10/2018	145337	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,780	20,89	TN	12- 340	0	: : :	· · · · · · · · · · · · · · · · · · ·
12-340	05/10/2018	145343	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,420	22.21	TN	12- 340	0	- <u></u> · · ·	:

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145347	PK NT	NON SPCI. WASTE TONS	I	BEAIRD	NONTN	45,440	22.72	TN	12- 340	0		
12-340	05/10/2018	145348	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	49,920	24.96	TN	12- 340	0		
12-340	05/10/2018	145349	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,200	20,10	TN	12- 340	0	-	
12-340	, 05/10/2018	145350	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,860	22.43	TN	12- 340	o		
12-340	05/10/2018	145359	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,540	20.77	TN	12- 340	0		· · · · · · · · · · · · · · · · · · ·
12-340	05/10/2018	145361	PK NT	NON SPCL WASTE TONS	ſ	BEAIRD	NONTN	41,760	20.88	TN	12- 340	0		
12-340	05/10/2018	145363	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,060	19,03	TN	12- 340	0		···
12-340	05/10/2018	145368	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,220	20.11	TN	12- 340	0		
12-340	05/10/2018	145371	PK NT	NON SPCL WASTE TONS	١	BEAIRD	NONTN	40,240	20.12	TN	12 - 340	0		
12-340	05/10/2018	145373	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,380	19,19	TN	12- 340	0		
12-340	05/10/2018	145374	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,620	19.81	TN	12- 340	0		
12-340	05/10/2018	145375	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,780	20.89	TN	12- 340	0		
12-340	05/10/2018	145381	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12 - 340	0		
12-340	05/10/2018	145383	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12- 340	0		nt MA: edition symmetry space, space, ab v. e
12-340	05/10/2018	145386	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12- 340	0		
12-340	05/10/2018	145388	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,200	17.60	TN	12- 340	0	The state of the s	· · · · · · · · · · · · · · · · · · ·
12-340	05/10/2018	145394	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	39,560	19.78	TN	12- 340	0		- Millian to delicing agency
12-340	05/10/2018	145396	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,300	18.15	TN	12- 340	0		
12-340	05/10/2018	145401	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	41,820	20.91	TN	12- 340	0	•	
12-340	05/10/2018	145403	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,640	22,32	TN	12- 340	0	3	
12-340	05/10/2018	145414	PK NT	NON SPCL WASTE TONS	i	BEAIRD	NONTN	34,840	17.42	TN	12- 340	0		***************************************
12-340	05/10/2018	145416	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,400	19.20	TN	12 - 340	0		
12-340	05/10/2018	145421	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,800	19.90	TN	12- 340	0		
12-340	05/10/2018	145422	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,200	20.60	TN	12- 340	0	:	** ***
12-340	05/10/2018	145424	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,820	18.41		12- 340	0		
12-340	05/10/2018	145427	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,300	17.15	IN :	12- 340	0		· · · · · · · · · · · · · · · · · · ·

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145428	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,960	18.48	TN	12- 340	0	trys wedly fluid across sylling 	
12-340	05/11/2018	145439	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,940	22.47	TN	12- 340	0	1	
12-340	05/11/2018	145440	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,180	23.59	TN	12- 340	0	†	
12-340	05/11/2018	145442	PK NT	NON SPCL WASTE TONS	1	BEAIRD	итиои	47,840	23.92	TN	12- 340	0	:	
12-340	05/11/2018	145444	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	48,940	24.47	TN	12- 340	0	; · · 	
12-340	05/11/2018	145446	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,620	20.31	TN	12- 340	0	,	
12-340	05/11/2018	145447	PK NT	NON SPCL WASTE TONS	1	BEAIRD	иоити	41,660	20.83	TN	12- 340	0	<u> </u>	
12-340	05/11/2018	145449	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,460	21,23	TN	12-	0	The second secon	
12-340	05/11/2018	145451	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,060	22.03	TN	12- 340	0	<u> </u>	<u> </u>
12-340	05/11/2018	145455	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,720	18,86	TN	12- 340	0	1	
12-340	05/11/2018	145457	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,160	19.08	TN	12-	0	1	
12-340	05/11/2018	145458	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,380	19.69	TN	12- 340	0		TATE - 14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
12-340	05/11/2018	145464	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,840	20.92	TN	12-	0	· · · · · · · · · · · · · · · · · · ·	
12-340	05/11/2018	145466	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,240	19.12	TN	12-	0	E manufacture and a manufacture of the second secon	
12-340	05/11/2018	145469	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,000	21.00	TN	12-	0		***************************************
12-340	05/11/2018	145470	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,520	19.76	TN	340 12- 340	0		
12-340	05/11/2018	145478	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,480	19.24	TN	12-	0		
12-340	05/11/2018	145480	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,360	17.68	TN	340 12-	0	: :	
12-340	05/11/2018	145481		NON SPCL	1	BEAIRD	NONTN	34,200	17.10	TN	340 12-	0	E E i	
12-340	05/11/2018	145492	PK NT	NON SPCL	· · · — ·	BEAIRD	NONTN	39,740	19,87	TN	340 12-	0	i 	
12-340	05/11/2018	145493	PK NT	NON SPCL		BEAIRD	NONTN	38,120		[12-	0		
	05/11/2018			NON SPCL	I	BEAIRD	NONTN	38,740			340 12-	0	ļ	
	05/11/2018			WASTE TONS NON SPCL	 -	BEAIRD	NONTN	34,720			340 12-	·	!	· · · · · · · · · · · · · · · · · · ·
	05/14/2018			WASTE TONS NON SPCL	` 	BEAIRD	NONTN	37,280	i	٠. ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	340 12-		:] !	
				WASTE TONS NON SPCL	· 			;		· · · - [340 12-		:	· · · · · · · · · · · · · · · · · · ·
	05/14/2018	·		WASTE TONS NON SPCL		BEAIRD	NONTN	37,120	· · · · · · · · · · · · · · · · · · ·		340 12-	0		·
12-340	05/14/2018	145536	PK NT	WASTE TONS	l	BEAIRD	NONTN	37,140	18.57	TN	340	0	i	Manager of the second

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/14/2018	145542	PK NT	NON SPCL WASTE TONS	1	BEAIRO	NONTN	39,800	19.90	TN	12- 340	0		2.2
12-340	05/14/2018	145549	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,920	21,46	TN	12- 340	0	i 	····
12-340	05/14/2018	145553	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,480	18.74	TN	12- 340	0		
12-340	05/14/2018	145554	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,260	21.13	TN	12- 340	0		
12-340	05/14/2018	145555	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,560	21.78	TN	12- 340	0		
12-340	05/14/2018	145556	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	44,120	22.06	TN	12- 340	o		
12-340	05/14/2018	145570	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,100	18,55	TN	12- 340	0		
12-340	05/14/2018	145573	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,680	19.84	TN	12- 340	0		
12-340	05/14/2018	145574	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,180	17,09	TN	12- 340	0		
12-340	05/14/2018	145576	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12- 340	0	The state of the s	ALL TO THE THE THE THE THE THE THE THE THE THE
12-340	05/14/2018	145581	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,200	19.10	TN	12 - 340	0		
12-340	05/14/2018	145582	PK NT	NON SPCL WASTE TONS	Į.	BEAIRD	NONTN	33,380	16.69	TN	12- 340	0		·
12-340	05/14/2018	145585	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,820	16,91	TN	12- 340	0	***	
12-340	05/14/2018	145591	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,560	18,78	TN	12- 340	0		
12-340	05/14/2018	145592	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,600	19.30	TN	12- 340	0		
12-340	05/14/2018	145608	PK NT	NON SPCL WASTE TONS	t .	BEAIRD	NONTN	34,440	17.22	ŤΝ	12- 340	0	1	
12-340	05/14/2018	145613	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,280	18.64	TN	12- 340	0		
12-340	05/14/2018	145614	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12- 340	0		
12-340	05/14/2018	145616	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,040	17.52	TN	12- 340	0		
12-340	05/14/2018	145623	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,540	19.27	TN	12- 340	0		
12-340	05/14/2018	145625	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,660	17.33	TN	12- 340	0	a se facilità de la companie de la c	
12-340	05/14/2018	145626	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	31,820	15.91	TN	12- 340	0		
12-340	05/14/2018	145640	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,440	17.72	TN	12- 340	0		
12-340	05/14/2018	145643	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,900	18.45	TN	12- 340	0		
12-340	05/14/2018	145650	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,580	16.79	TN	12- 340	0		
12-340	05/14/2018	145660	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	29,700	14.85	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	ln/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/14/2018	145667	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,540	18.27	TN	12- 340	0		r destatrates de s
12-340	05/14/2018	145669	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,360	21.18	TN	12- 340	0		
12-340	05/14/2018	145673	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,500	21.75	TN	12- 340	0		
12-340	05/14/2018	145674	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,720	19,36	TN	12- 340	0 ·		
12-340	05/14/2018	145676	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,980	18.99	TN	12- 340	0		
12-340	05/15/2018	145684	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,260	18,63	TN	12- 340	0		
12-340	05/15/2018	145689	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,120	18.56	TN	12- 340	0		
12-340	05/15/2018	145692	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,580	20,79	TN	12- 340	0		
12-340	05/15/2018	145697	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,720	19.86	TN	12- 340	0		<u> </u>
12-340	05/15/2018	145702	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,660	20,83	TN	12- 340	0		
12-340	05/15/2018	145705	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,580	20,29	TN	12 - 340	0		
12-340	05/15/2018	145706	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,940	19.47	TN	12- 340	0		
12-340	05/15/2018	145707	PK NT	NON SPCL WASTE TONS	Γ	BEAIRD	NONTN	35,620	17.81	TN	12- 340	0		entition (physical). Albert v. dal's describes and describe a
12-340	05/15/2018	145717	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,780	17.89	TN	12- 340	0		
12-340	05/15/2018	145720	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,840	18.92	TN	12- 340	0		
12-340	05/15/2018	145722	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,400	20.20	TN	12- 340	0		
12-340	05/15/2018	145724	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	38,560	19,28	TN	12- 340	0		· · · · · · · · · · · · · · · · · · ·
12-340	05/15/2018	145730	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,120	19.06	TN	12- 340	0		
12-340	05/15/2018	145734	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,340	20.17	TN	12- 340	o		
12-340	05/15/2018	145733	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	33,560	16.78	TN	12- 340	0		=
12-340	05/15/2018	145739	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,580	17.79	TN	12- 340	0		
12-340	05/15/2018	145754	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,760	18.88	TN	12- 340	0		
12-340	05/15/2018	145755	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	38,380	19.19	TN	12- 340	0	- No	
12-340	05/15/2018	145756	PK NT	NON SPCL WASTE TONS	ļl	BEAIRD	NONTN	39,480	19.74	TN	12- 340	0	! ! :	/ .
12-340	05/15/2018	145757	PK NT	NON SPCL WASTE TONS	i I	BEAIRD	NONTN	41,320	20,66	TN	12 - 340	· 0	· · · · · · · · · · · · · · · · · · ·	
12-340	05/15/2018	145763	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,320	21.16	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/15/2018	145765	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,920	18.96	TN	12- 340	0		
12-340	05/15/2018	145774	PK NT	NON SPCL WASTE TONS	1	BEAIRD	иоити	36,360	18.18	TN	12- 340	0		The same of the sa
12-340	05/15/2018	145780	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,680	18,84	אד	12- 340	0		
12-340	05/15/2018	145799	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,940	19.97	TN	12- 340	0		
12-340	05/15/2018	145801	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,900	19,95	TN	12- 340	0		
12-340	05/15/2018	145804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,500	18,25	TN	12- 340	0		
12-340	05/15/2018	145805	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,680	19.84	TN	12- 340	0	Programme communication	
12-340	05/15/2018	145807	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,740	18,87	TN	12- 340	0	A A CARTESTANA A C	
12-340	05/15/2018	145808	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,520	17.26	TN	12- 340	0	3	
12-340	05/15/2018	145813	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,440	19,72	TN	12- 340	0		
12-340	05/16/2018	145826	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,120	19.06	TN	12- 340	0		
12-340	05/16/2018	145829	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		
12-340	05/16/2018	145832	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		
12-340	05/16/2018	145834	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,960	20,48	TN	12- 340	0		
12-340	05/16/2018	145835	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,640	19.32	TN	12- 340	0		
12-340	05/16/2018	145837	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,780	21.39	TN	12- 340	0		
12-340	05/16/2018	145838	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	46,060	23.03	TN	12- 340	0		
12-340	05/16/2018	145839	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,540	19.77	TN	12- 340	0		!
12-340	05/16/2018	145841	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	41,620	20.81	TN	12- 340	0		
12-340	05/16/2018	145853	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,620	22.31	TN	12- 340	0		
12-340	05/16/2018	145854	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,240	19.62	TN	12- 340	o		
12-340	05/16/2018	145857	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	43,300	21.65	TN	12- 340	0	-	
12-340	05/16/2018	145860	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,200	20.60	TN	12- 340	0		
12-340	05/16/2018	145862	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,400	21.20	TN	12- 340	0	1	ļ ! !
12-340	05/16/2018	145866	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,540	19.77	TN	12- 340	0		[
12-340	05/16/2018	145869	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	43,500	21.75	TN	12-	0		

Scale Acct	Date	Ticket	Sz/Chg		In/Out	Vehicle	Material	Net Weight	Quantity	Unit	talan merekan dan di	Work Order	Manifest	Commen
12-340	05/16/2018	145873	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,540	16.77	TN	12- 340	0		
12-340	05/16/2018	145875	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,220	19,61	TN	12- 340	0		
12-340	05/16/2018	145890	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,560	22,28	TN	12- 340	0		
12-340	05/16/2018	145894	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,620	18.81	TN	12- 340	0		
12-340	05/16/2018	145898	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,340	19.17	TN	12- 340	0		
12-340	05/16/2018	145899	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,900	19.45	TN	12- 340	0		
12-340	05/16/2018	145901	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,640	17.32	TN	12 - 340	o		
12-340	05/16/2018	145910	PK NT	NON SPCL WASTE TONS	1	BEAIRD	иоити	37,340	18.67	TN	12- 340	0		
12-340	05/16/2018	145911	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,400	20,20	TN	12 - 340	0		
12-340	05/16/2018	145913	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18,60	TN	12- 340	0		
12-340	05/16/2018	145918	PK NT	NON SPCL WASTE TONS	i	BEAIRD	NONTN	39,520	19.76	TN	12- 340	0		
12-340	05/16/2018	145943	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,060	22.03	TN	12- 340	0		***************************************
12-340	05/16/2018	145944	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,720	17,86	TN	12- 340	0		
12-340	05/16/2018	145947	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	38,020	19,01	TN	12- 340	0		
12-340	05/16/2018	145949	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	33,680	16,84	TN	12- 340	0		**************************************
12-340	05/16/2018	145950	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		
12-340	05/16/2018	145954	PK NT	NON SPCL WASTE TONS	1	BEAIRD	монти	38,860	19.43	TN	12- 340	0		
12-340	05/16/2018	145957	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,500	20.25	TN	12- 340	0		
12-340	05/16/2018	145958	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	32,060	16.03	TN	12- 340	0		
12-340	05/16/2018	145959	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,500	19.25	TN	12- 340	0		
12-340	05/17/2018	145965	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,640	18.82	TN	12- 340	0		
12-340	05/17/2018	145969	PK NT	NON SPCI. WASTE TONS	The second secon	BEAIRD	NONTN	39,080	19.54	TN	12 - 340	0		
12-340	05/17/2018	145972	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,820	20.41	TN	12- 340	0		· · · · · · · · · · · · · · · · · · ·
12-340	05/17/2018	145984	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,040	18.52	TN	12- 340	0		
12-340	05/17/2018	145985	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,420	17.71	TN	12- 340	0		
12-340	05/17/2018	145989	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,360	19.18	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/17/2018	145993	PK NT	NON SPCL WASTE TONS	[BEAIRD	NONTN	36,280	18.14	TN	12- 340	0		ine the first training that it is not be
12-340	05/17/2018	145998	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,960	19.98	TN	12- 340	0		
12-340	05/17/2018	146001	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,200	18.60	TN	12- 340	0		
12-340	05/17/2018	146002	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,920	18.46	TN	12- 340	0	The state of the s	
12-340	05/17/2018	146008	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,980	18.49	TN	12- 340	0		<u>-</u>
12-340	05/17/2018	146010	PK NT	NON SPCL WASTE TONS	I	BEAIRD	итиои	36,040	18.02	TN	12- 340	0	I I	
12-340	05/17/2018	146017	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,700	20.35	TN	12- 340	0	The state of the s	
12-340	05/17/2018	146023	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,120	18,56	TN	12- 340	0		
12-340	05/17/2018	146026	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,500	18.75	TN	12- 340	0		
12-340	05/17/2018	146030	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,020	20.01	TN	12- 340	0		* A A A A A A A A A A A A A A A A A A A
12-340	05/17/2018	146029	PK NT	NON SPCL WASTE TONS	t	BEAIRD	NONTN	39,320	19.66	TN	12- 340	0		
12-340	05/17/2018	146049	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,820	19,41	TN	12- 340	0		
12-340	05/17/2018	146051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,100	18.05	TN	12- 340	0		
12-340	05/17/2018	146055	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,400	21.20	TN	12- 340	0		
12-340	05/17/2018	146062	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		The state of the s
12-340	05/17/2018	146071	PK NT	NON SPCL WASTE TONS	ŀ	BEAIRD	NONTN	38,180	19.09	TN	12- 340	0		and the first of t
12-340	05/17/2018	146073	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	37,180	18.59	TN	12- 340	0		
12-340	05/17/2018	146074	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	39,000	19.50	TN	12- 340	0		
12-340	05/18/2018	146092	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,920	19.46	TN	12- 340	0		
12-340	05/18/2018	146094	PK NT	NON SPCL WASTE TONS	1	8EAIRD	NONTN	40,180	20.09	TN	12- 340	0		
12-340	05/18/2018	146099	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	39,720	19.86	TN	12- 340	0		
12-340	05/18/2018	146101	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,820	21.91	TN	12- 340	0		77-1
12-340	05/18/2018	146112		NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,180	20.59	TN	12- 340	0		
12-340	05/18/2018	146115	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,460	19.23	TN	12- 340	0		
12-340	05/18/2018	146121	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,000	18.50	TN	12- 340	0		
12-340	05/18/2018	146122	PK NT	NON SPCL WASTE TONS	•	BEAIRD	NONTN	41,420	20.71	TN	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/18/2018	146124	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,940	18.47	TN	12- 340	0	**************************************	
12-340	05/18/2018	146126	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,920	19,46	TN	12- 340	0	1	,
12-340	05/18/2018	146127	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,680	20.34	TN	12- 340	0		
12-340	05/18/2018	146130	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,300	18.15	TN	12- 340	0		
12-340	05/18/2018	146142	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,580	17.79	TN	12- 340	0	1	
12-340	05/18/2018	146144	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,380	18.19	TN	12- 340	0		
12-340	05/18/2018	146157	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,960	20.48	TN	12- 340	0		
12-340	05/18/2018	146159	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	34,620	17.31	TN	12- 340	0		
12-340	05/18/2018	146164	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,700	17,85	TN	12- 340	0		_
12-340	05/18/2018	146169	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,700	19.35	TN	12- 340	0		
12-340	05/18/2018	146174	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,460	18.73	TN	12- 340	0	£ .	The server server servers in America
12-340	05/18/2018	146175	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,880	19.94	אד	12- 340	0	; ;	
Tickets:	399 Avg /	Ticket:19	.46	tara da ta mentana en en en entre da analidad da analidad		Calaba and a comment of the same for	·		7,763.51			·		

7,763.51 = 1.5 = 5,175.67

Pisrence Guarry C533 Central Stone Compt 26176 497 St. Pittsfield, IL 62363 ILDOT# 5149204	Electronic Filing PReceive	ed, Clerk's Office 10/2	78/2020 ZI Ticket No: ZIUSUS Plant (217) 723-4410
11/31 CE 21/450			
CUSTOMER: (1445EE	PRODUCT: 3 # JUST AMOUNT POUNDS TONS (US) RATE AMOUNT	CUSTOMER: Chase Chase environ	
	GROSS 504 tons \$3. March		GROSS TONS (US) RATE AMOUNT SOY TENS 915,00 1 ten
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VEHICLE:	FEES:	VEHICLE:	FEES:
P.O./JOB:	NET TOTAL	P.O.JJOB:	NET TOTAL
DELIVERY INFORMATION:		DELIVERY INFORMATION:	
	DRIVER'S SIGNATURE CUSTOMER COPY 2		DRIVER'S SIGNATURE CUSTOMER COPY 1
Florence Quarry CS33 Central Stone Compa 20170 487 St. Pittsfield, IL 82363	Plant (217) 723-4410	Florence Quarry CS33 Central Stone Co 28176 487 St. Pittsfield, IL 62363 A	Plant (217) 723-4410
ILDOT#5149204	Main Office: (309) 757-9250 DATE: 5-4-1/	ILDOT# 5149204	Main Office: (309) 757-8250 DATE: 5-9-17
CUSTOMER: Chase Chase environ		CUSTOMER: Chase chase envi	
a second resource of the second	GROSS 504 Hours 5,50 4 4 67	And the second of the second	POUNDS TONS (US) RATE AMOUNT
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AND CONTRACTOR OF STREET	NET TOTAL	Charles of the Charles of	NET TOTAL
P.O./JOB:	THE THE PARTY OF T	P.O.J.JOB: DELIVERY INFORMATION:	Total and the second second second
	DRIVER'S SIGNATURE CUSTOMER COPY 1		DRIVER'S SIGNATURE CUSTOMER COPY 1
Florence Quarry CS33 Central Stone Comp. 26176 487 St. Pittsfield, IL 62363		Florence Quarry CS33 Central Stone C	ompany Ticket No: 210302 Plant (217) 723-4410
LDOT# 5149204	Plant: (217) 723-4410 Main Office: (309) 767-8250 DATE: \$\int 7 - 17\$	26176 467 St. Pittsfield, IL 62363 ILDOT# 5149204	Main Office: (309) 757-8250 DATE:
CUSTOMER: Chases the commen		the design of the last	AND THE PERSON OF THE PERSON O
CUSTOMER: (07 (0 co 2o.m)	POUNDS TONS (US) RATE AMOUNT	CUSTOMER: Chase Chase PAVIT	POUNDS TONS (US) RATE AMOUNT
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ORDER: Charrool	TARE TAX:	ORDER: Chaseecol	TARE TAX:
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DELIVERY INFORMATION:	DRIVER'S SIGNATURE CUSTOMER COPY 1	DELIVERY INFORMATION:	DRIVER'S SIGNATURE CUSTOMER COPY 1
Florence Quarry CS33 Central Stone Compa 26178 487 St. Pittsfield, IL 62363	Plant (217) 723-4410	20176-497 St. Platfield, L. 02303 LDOT# 6140204	иприну Локет No. 2 гизии Plant: (217) 723-4410 Main Office: (300) 757-9250
the market and the property of the second of the second	Main Office: (309) 757-9250 DATE: 7-11-12		DATE: J= Leol8
CUSTOMER: CT aset these pavican		CUSTOMER: Chesce these environ	PRODUCT: PRODUCT: POUNDS TONS (US) RATE AMOUNT
	annes 9441 fans Sice x fan	and the second s	Soll for Shexten
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/EHICLE:	TARE FEES:	VEHICLE:	FEES:
P.O.JJOB:	NET TOTAL	P.O./JOB:	NET TOTAL
DELIVERY INFORMATION:		DELIVERY INFORMATION:	
	DRIVER'S SIGNATURE CUSTOMER COPY 1		DRIVER'S SIGNATURE CUSTOMER COPY 1
Florence Quarry CS33 Central Stone Compa 26176 487 St. Pittsfield, IL 62363	Plant (217) 723-4410	Florence Quarry CS33 Central Stone C 26176 487 St. Pittsfield, IL 62363	ompany Ticket No: 210306 Plant: (217) 723-4410
ILDOT# 5149204	Main Office: (309) 767-8260 DATE: 5 − 1 ← 1 ←	LDOT# 5149204	Main Office: (309) 757-8250 DATE:
CUSTOMER: Chare pavired		CUSTOMER: (Hasse Chase payle	
	POUNDS TONS (US) RATE AMOUNT	and the second second second	POUNDS TONS (US) RATE AMOUNT
oppen (haseeral	GROSS PINC X	ORDER: Chasee sol	GROSS 483 Tors 5 0 # 1 2-1
ONDER:	TARE TAX:	(000 3/10/2010) 4 (0014)	TARE TAX:
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	DRIVER'S SIGNATURE CUSTOMER COPY 1		DRIVER'S SIGNATURE CUSTOMER COPY 1
Florence Quarry CS33 Central Stone Corns	parry Ticket No: 210301	Florence Quarry CS33 Central Stone C	
26176 487 St. Pittsfield, IL 62363 ILDOT# 5149204	Plant (217) 723-4410 Main Office: (309) 757-9250	26176 487 St. Pittsfield, L. 62363 LDOT# 5149204	Plant: (217) 723-4410 Main Office: (309) 757-9250
And the second s	DATE: 5-15-18		DATE: 5-18-18
CUSTOMER: Chase Chase paymen	PRODUCT: POUNDS TONS (US) RATE AMOUNT	CUSTOMER: CHOSE Chase envir	PRODUCT:
	GROSS Soym Sice A tin		POUNDS TONS (US) RATE AMOUNT GROSS GROSS
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CUSTOMER COPY 1

Prorence Quarry CS33 Central Stone Company CS33 Central Stone Company CS33	ectronic Filing::Receive	ed, Clerk's Office 10/23/2020
LDOT# 5149204	Main Office: (309) 767-8260 DATE: 5-21-18	-, -, -, -, -, -, -, -, -, -, -, -, -, -
CUSTOMER: / HASE FUNKOMENTAL	PRODUCT: 3"MINUS	
	POUNDS TONS (US) RATE AMOUNT	
ORDER: CHASEF DOI	GROSS 65 TON	
VEHICLE:	TARE PLUS -TAX:	
P.O./JOB:	NET TOTAL	
DELIVERY INFORMATION:		
	DRIVER'S SIGNATURE CUSTOMER COPY 1	
Florence Quarry CS33 Central Stone Company 20178 497 St. Pittefield, L 62393 LDOT# 5149204	Ticket No: 210309 Plant (217) 723-4410 Main Office: (309) 757-9250 DATE: - ジェルン・ルタ	
CUSTOMER: CHASE ENVIRONMENTAL	PRODUCT: 3"Jours	
	POUNDS TONS (US), RATE AMOUNT	
ORDER: CHASE E DOS	TARE 63ToN + TAX:	
VEHICLE:	FEES:	
P.O./JOB: DELIVERY INFORMATION:	TOTAL	
	DRIVER'S SIGNATURE CUSTOMER COPY 1	
Florence Quarry CS33 Central Stone Company 20176 497 St. Plasfield, L. 02363 LDOT# 0149204	Ticket No: 210308 Plant: (217) 723-4410 Main Office: (309) 757-9290 DATE: 57-32-00	
CUSTOMER: PHASE ENVIOLEMENTAL	many a policy of the start of t	
W-00-1000 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	POUNDS , TONS (US) RATE AMOUNT	
ORDER: CHASE FOOT	GROSS 651, Tow	
VEHICLE:	FEES:	
P.O./JOB:	NET	
DELIVERY INFORMATION:	DRIVER'S SIGNATURE CUSTOMER CORY 1	

Coad of Mark Balv 2 2000 1000	Date: 5-9-/8	Electronic Filing: Receive	ed, Clerk's Office 10/23/2	2020
Address	Load of: Wash Rook		Load of: #8	
Address: 3300	Name: #15 Based	72800	Name:	
Dote: State Stat			Addrage:	108881)
Weigher:		39300		
Remarks Rem	Driver: 🗆 Off	- /10 6	Driver: 🗆 Off	31.00
Date: 5-9-18	Weigher:	_	Weigher:	37786 644
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Name: # # Sec. 3 10 0	Date:_5-5-18		Date: 5-9-/8	
Name: 42 Sec. 31000 Name: 499 31000 Name: 499 31000 Name: 499 31000 Name: 499 31000 Name: 499 31000 Name: 499	Load of: Wash Rock	_	Load of: Wash Boct	67260
Address: 36260 Address: 36260 Address: 36260 Date: 3468 Date:	Name: # & Boird		Name: # 99	
Driver Orl Orl Weigher Orl Weigher Orl Weigher Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl Orl	Address:		Address:	36260
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Load of: W65 h Rock Name: # 99 Bair U Address:				
Name: # 99 Bair U Address: On	Date: \(\) -4-18		Date:	
Address: On	Load of: WASh Rock	<u></u>	Load of: #13	
Address: On	Name: # 99 Baird	- 1200	Name:	
On Driver: Off		00,000	Address:	10111
Weigher: 36840 Weigher: 36940 Remarks: Date: 5-9-18 #1388:65 m Load of: Mash Reck 64640 Load of: Mash Reck 7204C Name: #8 Bair 0 31000 Name: Real of 13 33000 Address: 3000 Address: 3000 Driver: □ Off □ On Driver: □ Off □ On Driver: □ Off		21 272		7/2,190
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Load of: Wash Rock 64640 Name: #8 Bair 0 31000 Address: On	Remarks:		Remarks:	
Name: #8 Bair 2 3/000 Name: Beair 2 #13 33000 Address: On	Date: 5-9-18		Date: 5-9-18	#13 8:85 m
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On	Name: #8 Bair		Name: Begind # 13	33000
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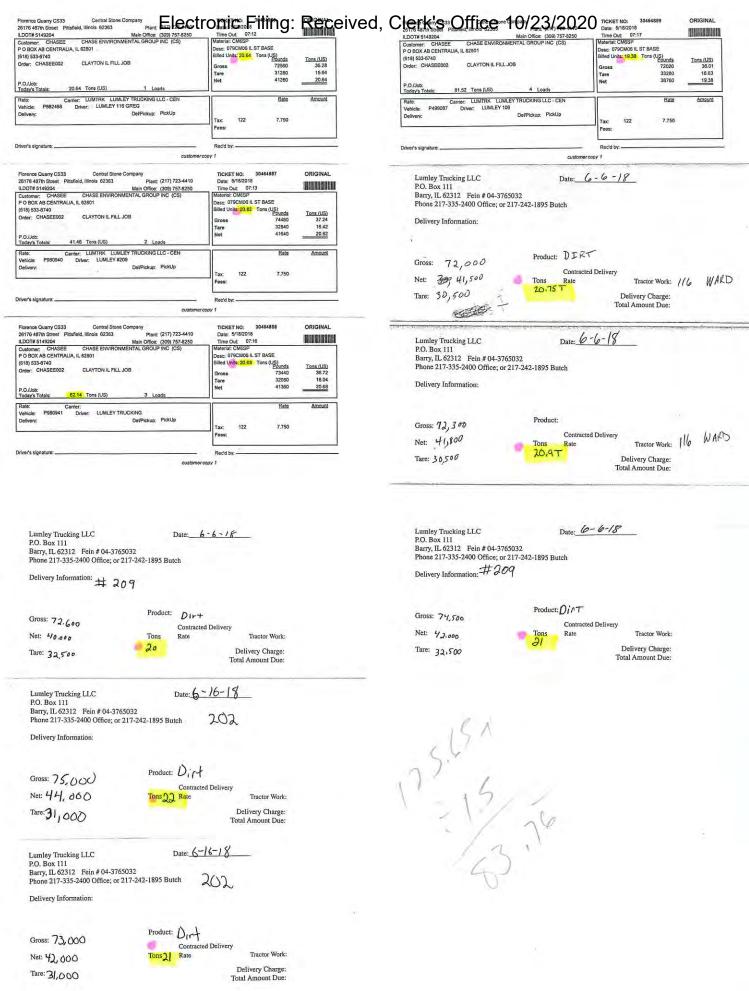
Remarks:

Date: _ S-1()- /8	Electronic Filing: Received, Clerk's Office 10/23/2020
Load of: 99	<u> </u>
Name:	- 33.000
Address:	
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oad of: # 13	74200 33000 41200	Load of: # 99 Name:	67,960
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e: # 5·10·17		Date: 5- 10-18 Load of: # 13	
dress: On ver: Off	31000	Name:Address:On Driver:Off	68840
igher:	(27.23)	Weigher:	35 640
# C.		Date: 5 / 0 · / 7	truck#13
ad of: ** S		Load of:	- 74860 - 33000
lame:	64,840	Name:	41860

36240 Weigher: Weigher: 5-10-18 Date: 5.10.18 Load of: 7/120 31, 220 Address: Address:_ ☐ On Driver: ☐ Off_ ☐ On Driver: ☐ Off_ Weigher: _ Weigher: Remarks:_ Remarks:

Load of: Wash Roct		Load of: WASK ROCK	
Name: Beior & #99	68260	Name: Beaird Hogy	69160
Address:	31220	Address:	31480
☐ On	37040	□ On	37680
Driver: Off	(14 5-)	Driver: 🗆 Off	
Weigher:	1.5	Weigher:	The state of
Remarks:		Remarks:	
Date: 5-9-18		Date: 5 - 9 - 18 #	
Load of: WASK ROCK		Load of: WASh ROCK	
Name: Beaird #8	71,200	Name: Beaked #13	74360
Address:	31000	Address:	33,000
☐ On Driver: ☐ Off	40200	□ On	41 360
Weigher:	(100	Driver: Off	C18 10X
Remarks:		Weigher:	(1.00)
		Remarks:	
Date: 5-11-18 Load of: Rek Wesh Name: Row 2 # 2 Address:	68280 33006	Date:	72540
□ On		☐ On Driver: ☐ Off	41320
Driver: ☐ Off	(17 64)	Weigher:	(20 ule)
Remarks:		Remarks:	
Date: 5-11-18		Date: 5-10-18	
Load of: Wash		Load of: #8	
Name: 3 # 13	79980	Name:	73,800
Address:	31006	Address:	31,000
□On	48980	☐ On Driver: ☐ Off	42800
Driver: Off	() I	Weigher:	-
Weigher:	(24 49)	Remarks:	(214)
Remarks:		nemarks	



Lumley Trucking LLC P.O. Box 111 Barry, Il. 62312

Invoice

Date	Invoice #
6/18/18	7815

Bill To

Chase Environmental Group INC 2701 Eash Ash Springfield, IL 62704

phone # 217-335-2400

Item	Descr	iption	Location	Qty	Rate	Amount
Item Jaul	Dirt Plus Hauling	Depart: 63	Clayton IL SOC4 P,F MC S/18	125.65	13.00	1,633.45
				Total		\$1,633.45

DUE UPON RECEIPT.

Finance Charges of 18% annually will be added if not paid within 30 days of invoice date.

Payments/Credits	\$0.00
Balance Due	\$1,633.45

JPMORGAN CHASE & CO.

Post date:	07/26/2018	Account:	979089729
Amount:	\$ 1633.45	Check Number:	93370
PAY 101HE CROER Lumley Trucking, LLC or Lumley Trucking, LLC P.O. Box 111 Barry, IL 62312	DATE AUGUST 7/17/2018	The score habitations are not so make the score of the sc	7/26/2018 0001 0003 PEW 29 Do NOT WHITE, STAND OR SIGH DELOW THIS LINE CONTROL OF SIGH DELOW

BEAIRD TRANSPORT, INC.

Sam & Heather Beaird 7132 E Seed Corn Road Astoria, IL 61501 (309) 329-9931

DATE 5/15/2018 13558

BILL TO:

PARKER GAS AND MOORE 11450 WATERSON CT. LOUSIVILLE, KY 40299 SPECIAL INSTRUCTIONS/JOB INFORMATION

CHASE ENVIRONMENTAL JOB TO HICKORY RIDGE LANDFILL FROM CLAYTON, IL 5/1/18 THRU 5/11

TERMS

Due on receipt

P.O. NO. S0908004

MATERIAL HAULED OR SERVICE PROVIDED	RATE EACH/ TON/HOUR/BUS	QTY HAULED	TOTAL
TRAILER RENTAL PER HOUR HAULING OFF MATERIALS FROM CLAYTON, IL TO HICKORY RIDGE LANDFILL - AND HAULING BACK FILL BACK INTO CLAYTON, IL FOR CHASE ENVIRONMENTAL TICKET # 3377,5340, 8067, 3243, 8001, 3237, 5341, 8068, 8008, 8002, 3242, 8069, 3378, 8003, 8070, 3383, 2319, 3384, 8071, 8297, 8004, 8005, 8072, 3385, 8296, 2001, 3487, 8073, 8006, 2007, 3488, 8074, 8007, 2320, 8075, 8009	88.00	307.5	27,060.00
Sales Tax	7.75%		0.00
Depart: JO37 Job# F0908004P,F Equip#: Account#: Cost Code#: 40 Approved By: MC Date: 5/23/18		MAY 17	2018

Total Due

\$27,060.00

A 2% late charge will be added to all invoices over 30 days.
Thank you for your business!

JPMORGAN CHASE & CO. Electronic Filing: Received, Clerk's Office 10/23/2020

Post date:	06/19/2018		
Amount:	\$ 27060.00		
l 114	RONMENTAL GROUP, INC. 150 WATTERSON CT 162, KERTUCKY 40259-2039 1502) 267-1455	CHASE Phorper Chase Bank, N.A. who Chasacon 21-15/200	93115
THE SIM O	OF TWENTY SEVEN THOUSAND SIXTY	0ATE 6/13/2018 ****	93115 AMOUNT 3
PAY TOTI≪ ORIGER Beaird Tran OF Beaird Tran Sam & Hea	isport, Inc. ther Beaind d Com Road	M. C.	
	#093115# #08300013	712 979089729#	

Account:	979089729
Check Number:	93115

Property faunces in Special Facilities in Sp	Materianum 4 (1976)	EMOONSE HEAR:
A Johann S Hood belong at med at to be a private debuggeddoort. Security of the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the common lead of the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and the fight and fight an	HEANKS L 61501-9 L 61501-9 COSITONI MISPORT, MIS	TO THE ORDER OF

BEAIRD TRANSPORT, INC.

Sam & Heather Beaird 7132 E Seed Corn Road Astoria, IL 61501 (309) 329-9931

DATE 6/6/2018 13636

PARKER GAS AND MOORE
11450 WATERSON CT.
LOUSIVILLE, KY 40299

RING
RING
TERMS
P.O. NO.
Due on receipt
SPECIAL INSTRUCTIONS/JOB INFORMATION

PARKER GAS AND MOORE
11450 WATERSON CT.
LOUSIVILLE, KY 40299

TERMS
P.O. NO.
S0908004

MATERIAL HAULED OR SERVICE PROVIDED	RATE EACH/ TON/HOUR/BUS	QTY HAULED	TOTAL
TRAILER RENTAL PER HOUR HAULING MATERIALS FROM CLAYTON, IL TO THE HICKORY RIDGE LANDFILL AND HAULING BACKFILL INTO CLAYTON, IL TICKET # 3227, 8012, 8066, 8050, 3229, 8013, 8064, 8052, 3228, 8014, 8056, 8055, 3230, 8062, 8059, 3231, 8031, 8351, 8060, 3232, 8032, 8017, 8061, 3233, 8347, 8040, 8054, 3234, 8029, 8018, 8030, 3236, 7517, 7525, 2227, 8076, 8083, 2322, 7619, 7585, 3235, 8019, 7566, 2321, 8077, 8084, 7620, 7586, 7534, 8023, 7567, 8085, 8078, 7625, 2021, 2066, 7588, 7531, 8022, 7568, 8079, 8086,	88.00	727.25	63,998.00
7621, 2233, 7582, 7533, 7530, 7622, 8080, 7845, 8087, 7584, 7535, 7526, 8355, 7624, 8081, 8088, 7527, 7536, 2234, 7421, 7537, 7528, 7569, 7591, 8082, 8089, 7846 Sales Tax	John FOGOSOC Equip#: 40 Cost Code#: Approved By: MC Date: 5-13-18	4P.F	0.00

A 2% late charge will be added to all invoices over 30 days.
Thank you for your business!

ء لله نين با

JUN 1 1 2018

\$63,998.00

Total Due

Electronic Filing: Received, Clerk's Office 10/23/2020 JPMORGAN CHASE & CO.

Account: 979089729 Post date: 07/11/2018 Check Number: 93309 Amount: \$63998.00 93309 CHASE ENVIRONMENTAL GROUP, INC. 11450 WATTERSON CT LOUISVILLE, KENTUCKY 40239-2389 (502) 267-1455 DATE PAY TO THE CADER OF Beaird Transport, Inc. Sam & Heather Beaird 7132 E Seed Corn Road Astoria, IL 61501 r093309r x0830001374 979089729#

Consulting Personnel Costs Form

Remediation Category Task Senior Project Manager .00 119.11 CCAP Negotiate access to adjoining properties east (private residential) and south (City park) Senior Project Manager .00 119.11 CCAP Coordinate Aug 2013 overburden soil investigation Senior Project Manager .00 119.11 CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10	\$.00 \$.00 \$.00
CCAP Negotiate access to adjoining properties east (private residential) and south (City park) Senior Project Manager OCAP Coordinate Aug 2013 overburden soil investigation Senior Project Manager OCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager OCA-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager OCA-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager OCA-Field	\$.00
CCAP Negotiate access to adjoining properties east (private residential) and south (City park) Senior Project Manager .00 119.11 CCAP Coordinate Aug 2013 overburden soil investigation Senior Project Manager .00 119.11 CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager .00 121.49 CCA-Field	\$.00
Negotiate access to adjoining properties east (private residential) and south (City park)	\$.00
CCAP Coordinate Aug 2013 overburden soil investigation Senior Project Manager .00 119.11 CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager .00 121.49 CCA-Field	\$.00
CCAP Coordinate Aug 2013 overburden soil investigation Senior Project Manager .00 119.11 CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager .00 121.49 CCA-Field	\$.00
Coordinate Aug 2013 overburden soil investigation Senior Project Manager .00 119.11 CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager .00 121.49 CCA-Field	
CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10 Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10 Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10 Senior Project Manager .00 121.49 CCA-Field	
CCA-Field Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10 Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10 Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10 Senior Project Manager .00 121.49 CCA-Field	
Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10) Senior Technician .00 71.45 CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10) Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10) Senior Project Manager .00 121.49 CCA-Field	10hrs ea)
CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10rd or 119.11) FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10rd or 121.49) Senior Project Manager O Senior Project Manager O Senior Project Manager O Senior Project Manager O CCA-Field	
CCA-Field Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10rd or 119.11) FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10rd or 121.49) Senior Project Manager O Senior Project Manager O Senior Project Manager O Senior Project Manager O CCA-Field	
Collect overburden samples, locate/recondiction monitoring wells, site mapping (4days x 10r Senior Project Manager .00 119.11 FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10h Senior Project Manager .00 121.49 CCA-Field	\$.00
FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10h Senior Project Manager .00 121.49 CCA-Field	ırs ea)
FP-Field Supervise/document free product investigation, removal & monitoring activites (5 days x 10h Senior Project Manager .00 121.49 CCA-Field	
Supervise/document free product investigation, removal & monitoring activities (5 days x 10h Senior Project Manager .00 121.49 GCA-Field	\$.00
CCA-Field .00 121.49	ırs ea)
CCA-Field .00 121.49	
CCA-Field Supervise/document Oct 2014 groundwater investigation (3 days x 10 hrs ea)	\$.00
O Senior Technician .00 78.96	\$.00
CCA-Field Oct 2014 groundwater investigation: purge wells, collect groundwater samples (3 days x 10	hrs ea)
O Senior Project Manager .00 121.49	\$.00
FP-Design Coordinate/schedule free product investigation, removal & monitoring activities	
0 Senior Project Manager .00 121.49	
CCAP Coordinante/schedule Oct 2014 groundwater investigation activities	\$.00

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
			r		
Matthew Rives (MR)		Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure contracto	ors/service providers for proposed o	overnurden remo	oval, soil abatem	ent & backfilling
MR		Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure access &	k coordinate field activiteis with Proj	perty Owners an	d contractors	
MR, Alan Curtiss (AC)		Senior Project Manager	200.00	121.49	\$24,298.00
CCA-Field	Supervise/docur	nent overburn removal, soil abatem	ent & backfilling	activities (20 da	ys x 10 hrs ea)
Zack Page (ZP), Brandon Maus (I	B M)	Senior Technician	178.00	78.96	\$14,054.88
CCA-Field	Collect soil sam	oles, prep. site map, coordinate was	ste manifests, et	c. during soil ab	atement activities
x		Senior Project Manager	.00	121.49	\$.00
CCA-Field	Supervise/docur	nent post-abatement groundwater i	nvestigation acti	ivites (4 days x 1	0 hrs ea)
x		Geologist III	.00	121.49	\$.00
CCA-Field	Post-abatement	groundwater investigation: Log bor	ings, screen soil	l, document well	construction, etc.
0		Senior Project Manager	.00	121.49	\$.00
CCAP	Draft Jan 2015 (CAP & Free Product Removal Repo	ort		
0		Senior Project Manager	.00	121.49	\$.00
CCAP-Budget	Prepare Jan 201	15 CAP & Free Product Removal Re	eport Budget	•	
0		Senior Prof. Geologist	.00	133.64	\$.00
CCAP	Review/certify J	an 2015 CAP & Free Product Remo	oval Report		

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			

0	· :	Senior Prof. Geologist	.00	133.64	\$.00
CCAP-Budget	Review/certify Ja	an 2015 CAP & Free Product Remo	val Report Budg	get	
0		Senior Draftperson/CAD	.00	72.88	\$.00
CCAP	Prepare maps/fig	gures included in Jan 2015 CAP & I	ree Product Re	emoval Report	
0		Senior Admin. Assistant	.00	54.67	\$.00
CCAP	Prepare/submit	Jan 2015 CAP & Free Product Rem	oval Report to 0	D/O and IEPA	
		Senior Project Manager			
ELUC	Revise contamir	nant transport models	.00	121.49	\$.00
x in the second		Senior Project Manager	.00	121.49	\$.00
НАА	Prepare/negotia	te HAA between O/O and IDOT			
x		Senior Admin. Assistant	.00	54.67	\$.00
НАА	Prepare/submit	HAA to O/O and IDOT		HERMINANI I	
X		Senior Project Manager	.00	121.49	\$.00
ELUC	Identify Property	Owners requiring notification of gro	oundwater ordin	ance as Institutio	onal Control
X		Senior Project Manager	.00	121.49	\$.00
ELUC	Prepare Propert	y Owner Notification letters.			
x		Senior Admin. Assistant	.00	54.67	\$.00
ELUC	Prepare/submit	notification letters to Property Owne	ers and City of C	layton	

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
MR		Senior Acct. Technician	20.00	66.81	\$1,336.20
СА-Рау	Prepare reimbur	sement applications			Ψ1,000.20
MR		Senior Prof. Engineer	3.00	157,94	\$473.82
CA-Pay	Review/certify re	imbursement applications			
MR		Senior Admin. Assistant	6.00	54.67	\$328.02
CA-Pay	Prepare/submit	reimbursement applications to O/G	O & IEPA		
		<u> </u>	1		
			(12)		
			431		

^{*}Refer to the applicable Maximum Payment Amounts document.

	Total of Consulting Personnel Costs	\$43,406.68
ı		Ψ - ΤΟ,-ΤΟΟΟΟ



Personnel Work Sheet

Project: Parker's Gas & More Stage: Corrective Action Incident #: 95-1012

						Billing	Period		
Project Name	Employee Name	Personnel Title	Work	In	Out	From	То	Day of	Hours
		C. Tashaisian	Date	0.00	- 15.5			Week	Worke
Parkers Gas N More Parkers Gas N More	Zack Page Matthew Rives	Sr. Technician Sr. Project Manager	12/19/17	9:00	10:30	12/17/2017 3/25/2018	12/23/2017 3/31/2018	Tuesday	1.50
Parkers Gas N More	Zack Page	Sr. Technician	04/04/18	15:30	17:00	4/1/2018	4/7/2018	Friday Wednesday	2.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/04/18	12:00	17:00	4/1/2018	4/7/2018	Wednesday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/05/18	8:00	12:00	4/1/2018	4/7/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/05/18	13:00	17:00	4/1/2018	4/7/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/06/18	8:00	12:00	4/1/2018	4/7/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/06/18	13:00	17:00	4/1/2018	4/7/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/09/18	14:00	17:00	4/8/2018	4/14/2018	Monday	3.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/10/18	8:00	12:00	4/8/2018	4/14/2018	Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/10/18	13:00	17:00	4/8/2018	4/14/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/12/18	8:00	11:00	4/8/2018	4/14/2018	Thursday	3.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/12/18	8:00	16:00	4/8/2018	4/14/2018	Thursday	8.00
Parkers Gas N More	Brandon Maus	Sr. Technician	04/13/18	14:00	14:30	4/8/2018	4/14/2018	Friday	0.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/13/18	8:00	12:00	4/8/2018	4/14/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/13/18	13:00	17:00	4/8/2018	4/14/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	7:00	12:00	4/15/2018	4/21/2018	Thursday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	13:00	17:00	4/15/2018	4/21/2018	Thursday	4.00
Parkers Gas N More Parkers Gas N More	Matthew Rives Matthew Rives	Sr. Project Manager Sr. Project Manager	04/19/18	7:00 13:00	12:00 17:00	4/15/2018 4/15/2018	4/21/2018	Thursday Thursday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	10:00	12:00	4/15/2018	4/21/2018 4/28/2018	Thursday	2.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/27/18	9:00	13:00	4/22/2018	4/28/2018	Friday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/30/18	8:00	12:00	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	8:00	9:30	4/29/2018	5/5/2018	Monday	1.50
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	9:30	12:00	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/30/18	5:00	17:00	4/29/2018	5/5/2018	Monday	12.00
Parkers Gas N More	Ray joseph	Operator	04/30/18	7:00	9:30	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Ray joseph	Operator	04/30/18	9:30	12:00	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Ray joseph	Operator	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	05/01/18	6:00	11:30		5/5/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/01/18	12:00	15:00	4/29/2018	5/5/2018	Tuesday	3.00
Parkers Gas N More	Brandon Maus Brandon Maus	Laborer	05/01/18	6:30	11:00	4/29/2018	5/5/2018	Tuesday	4.50
Parkers Gas N More Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/01/18 05/01/18	11:30 5:00	15:00 17:00	4/29/2018 4/29/2018	5/5/2018 5/5/2018	Tuesday	3.50
Parkers Gas N More	Ray joseph	Operator	05/01/18	6:00	11:00	4/29/2018	5/5/2018	Tuesday Tuesday	12.00
Parkers Gas N More	Ray joseph	Operator	05/01/18	11:30	15:30	4/29/2018	5/5/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	05/02/18	6:00	12:30		5/5/2018	Wednesday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/02/18	13:00	15:00		5/5/2018	Wednesday	2.00
Parkers Gas N More	Brandon Maus	Laborer	05/02/18	6:30	11:00	4/29/2018	5/5/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/02/18	11:30	15:00	4/29/2018	5/5/2018	Wednesday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/02/18	5:00	17:00	4/29/2018	5/5/2018	Wednesday	12.00
Parkers Gas N More	Ray joseph	Operator	05/02/18	6:30	11:00	4/29/2018	5/5/2018	Wednesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/02/18	11:30	15:00	4/29/2018	5/5/2018	Wednesday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	6:00	12:00	4/29/2018	5/5/2018	Thursday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	12:30	15:00	4/29/2018	5/5/2018	Thursday	2.50
Parkers Gas N More	Brandon Maus	Laborer	05/03/18	6:30		4/29/2018		Thursday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/03/18	11:30	15:00		5/5/2018	Thursday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/03/18	5:00	17:00		5/5/2018	Thursday	12.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	6:00	12:00		5/5/2018	Thursday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	12:30	15:00		5/5/2018	Thursday	2.50
Parkers Gas N More	Ray joseph	Operator	05/03/18	6:00	11:00		5/5/2018	Thursday	5.00
Parkers Gas N More Parkers Gas N More	Ray joseph Zack Page	Operator Sr. Technician	05/03/18 05/04/18	11:30 6:00	16:00 12:30		5/5/2018 5/5/2018	Thursday Friday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	6:30	11:00		5/5/2018	Friday	6.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	11:30	15:00		5/5/2018	Friday	4.50 3.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	15:00	16:00		5/5/2018	Friday	1.00
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	16:00	17:30	4/29/2018	5/5/2018	Friday	1.50
Parkers Gas N More	Zack Page	Sr. Technician	05/04/18	6:00	12:30		5/5/2018	Friday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/04/18	13:00	16:00		5/5/2018	Friday	3.00
Parkers Gas N More	Ray joseph	Operator	05/04/18	6:00	11:00		5/5/2018	Friday	5.00
Parkers Gas N More	Ray joseph	Operator	05/04/18	11:30	15:30		5/5/2018	Friday	4.00
Parkers Gas N More	Brandon Maus	Sr. Technician	05/05/18	10:00	12:00		5/5/2018	Saturday	2.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/07/18	5:00	15:00		5/12/2018	Monday	10.00
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	4:45	6:15	5/6/2018	5/12/2018	Monday	1.50
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	6:15	12:00	5/6/2018	5/12/2018		5.75

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Personnel Work Sheet

Project: Parker's Gas & More Stage: Corrective Action Incident #: 95-1012

			Tage T	7		Billing	Period		
Project Name	Employee Name	Personnel Title	Work Date	In	Out	From	То	Day of Week	Hours Worked
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	12:30	13:15	5/6/2018	5/12/2018	Monday	0.75
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	13:15	15:00	5/6/2018	5/12/2018	Monday	1.75
Parkers Gas N More	Zack Page	Sr. Technician	05/07/18	5:00	11:00	5/6/2018	5/12/2018	Monday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/07/18	12:00	15:00	5/6/2018	5/12/2018	Monday	3.00
Parkers Gas N More	Ray joseph	Operator	05/07/18	6:30	12:00	5/6/2018	5/12/2018	Monday	5.50
Parkers Gas N More	Ray joseph	Operator	05/07/18	12:30	15:00	5/6/2018	5/12/2018	Monday	2.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/08/18	6:30	15:00	5/6/2018	5/12/2018	Tuesday	8.50
Parkers Gas N More	Brandon Maus	Laborer	05/08/18	6:30	11:00	5/6/2018	5/12/2018	Tuesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/08/18	11:30	15:00	5/6/2018	5/12/2018	Tuesday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/08/18	6:00	11:30	5/6/2018	5/12/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/08/18	12:00	15:00	5/6/2018	5/12/2018	Tuesday	3.00
Parkers Gas N More	Ray joseph	Operator	05/08/18	6:30	11:00	5/6/2018	5/12/2018	Tuesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/08/18	11:30	15:00	5/6/2018	5/12/2018	Tuesday	3.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/09/18 05/09/18	6:30	15:30 11:00	5/6/2018 5/6/2018	5/12/2018 5/12/2018	Wednesday	9.00
Parkers Gas N More Parkers Gas N More	Brandon Maus Brandon Maus	Laborer Laborer	05/09/18	11:30	15:00	5/6/2018	5/12/2018	Wednesday Wednesday	4.50
Parkers Gas N More	Zack Page	Sr. Technician	05/09/18	6:00	12:30	5/6/2018		Wednesday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/09/18	13:00	15:00	5/6/2018		Wednesday	2.00
Parkers Gas N More	Ray ioseph	Operator	05/09/18	6:00	11:00	5/6/2018	5/12/2018	Wednesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/09/18	11:30	15:30	5/6/2018	5/12/2018	Wednesday	4.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/10/18	5:00	16:00	5/6/2018	5/12/2018	Thursday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	6:30	11:00	5/6/2018	5/12/2018	Thursday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	11:30	15:00	5/6/2018	5/12/2018	Thursday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	6:00	11:00	5/6/2018	5/12/2018	Thursday	5.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	11:30	15:30	5/6/2018	5/12/2018	Thursday	4.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/11/18	6:30	17:00	5/6/2018	5/12/2018	Friday	10.50
Parkers Gas N More	Brandon Maus	Laborer	05/11/18	6:30	11:00	5/6/2018	5/12/2018	Friday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/11/18	11:30	15:00	5/6/2018	5/12/2018	Friday	3.50
Parkers Gas N More	Ray joseph	Operator	05/11/18	6:30	11:00	5/6/2018	5/12/2018	Friday	4.50
Parkers Gas N More	Ray joseph	Operator	05/11/18	11:30	15:00	5/6/2018	5/12/2018	Friday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/14/18	13:00	17:00	5/13/2018	5/19/2018	Monday	4.00
Parkers Gas N More	Ray joseph	Operator	05/14/18	6:00	12:00	5/13/2018	5/19/2018	Monday	6.00
Parkers Gas N More	Ray joseph	Operator	05/14/18	13:00	15:30	5/13/2018	5/19/2018	Monday	2.50
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	6:15	12:00	5/13/2018	5/19/2018	Monday	5.75
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	12:30	13:15	5/13/2018	5/19/2018	Monday	0.75
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	13:15	15:00	5/13/2018	5/19/2018	Monday	1.75
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/14/18	5:00	17:30		5/19/2018	Monday	12.50
Parkers Gas N More	Ray joseph	Operator	05/15/18	6:00	11:00	5/13/2018	5/19/2018	Tuesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/15/18	11:30	15:00	5/13/2018	5/19/2018	Tuesday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/15/18	6:30	11:00	5/13/2018	5/19/2018	Tuesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/15/18	11:30	15:00	5/13/2018	5/19/2018	Tuesday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/15/18	5:00	17:30		5/19/2018	Tuesday	12.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/15/18	10:00	11:30		5/19/2018	Tuesday	1.50
Parkers Gas N More	Zack Page	Sr. Technician	05/15/18	6:00		5/13/2018		-	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/15/18	12:30		5/13/2018			3.00
Parkers Gas N More	Ray joseph	Operator	05/16/18	6:30	11:00			Wednesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/16/18	11:30		5/13/2018		Wednesday	4.00
Parkers Gas N More	Brandon Maus	Laborer	05/16/18	6:30	11:00	5/13/2018 5/13/2018		Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer Cr. Draiget Manager	05/16/18	11:30	15:00		and the same of th		3.50
Parkers Gas N More Parkers Gas N More	Alan Curtiss Zack Page	Sr. Project Manager Sr. Technician	05/16/18 05/16/18	4:45 6:00		5/13/2018 5/13/2018		Wednesday	-
Parkers Gas N More	Zack Page Zack Page	Sr. Technician	05/16/18	12:30		5/13/2018		Wednesday	-
Parkers Gas N More	Ray joseph	Operator	05/16/18	6:00	11:00		5/19/2018		5.00
Parkers Gas N More	Ray joseph	Operator	05/17/18	11:30	15:00		5/19/2018		3.50
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	6:00		5/13/2018	5/19/2018	Thursday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	11:30	14:30		5/19/2018		3.00
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	14:30	15:30		5/19/2018	Thursday	1.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/17/18	6:30		5/13/2018	5/19/2018		10.50
Parkers Gas N More	Zack Page	Sr. Technician	05/17/18	6:00		5/13/2018	5/19/2018	Thursday	6.00
Parkers Gas N More	Zack Page Zack Page	Sr. Technician	05/17/18	12:30		5/13/2018	5/19/2018	Thursday	3.00
I dingle dae in Mole	Laur I age		00/1//10						_
Parkers Gas N More	Ray ioseph	Operator	05/18/18	6.30	11:00	5/13/2018	5/19/2018	Friday	4 50
Parkers Gas N More Parkers Gas N More	Ray joseph Ray joseph	Operator Operator	05/18/18 05/18/18	6:30 11:30	11:00 14:30		5/19/2018 5/19/2018	Friday Friday	4.50 3.00

144.75



Personnel Work Sheet

Project: Parker's Gas & More Stage: Corrective Action Incident #: 95-1012

						Billing	Period	15 16	Jan B
Project Name	Employee Name	Personnel Title	Work Date	ln:	Out	From	То	Day of Week	Hours Worked
Parkers Gas N More	Brandon Maus	Laborer	05/18/18	11:30	15:00	5/13/2018	5/19/2018	Friday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/18/18	8:00	17:00	5/13/2018	5/19/2018	Friday	9.00
Parkers Gas N More	Zack Page	Sr. Technician	05/18/18	6:00	12:00	5/13/2018	5/19/2018	Friday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/18/18	12:30	16:30	5/13/2018	5/19/2018	Friday	4.00
Parkers Gas N More	Ray joseph	Operator	05/21/18	10:30	12:00	5/20/2018	5/26/2018	Monday	1.50
Parkers Gas N More	Ray joseph	Operator	05/21/18	12:30	17:30	5/20/2018	5/26/2018	Monday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/21/18	6:00	11:00	5/20/2018	5/26/2018	Monday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/21/18	11:30	15:30	5/20/2018	5/26/2018	Monday	4.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/21/18	10:00	12:30	5/20/2018	5/26/2018	Monday	2.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/21/18	6:00	17:00	5/20/2018	5/26/2018	Monday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	7:30	12:00	5/20/2018	5/26/2018	Monday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	12:30	16:00	5/20/2018	5/26/2018	Monday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	16:00	16:30	5/20/2018	5/26/2018	Monday	0.50
Parkers Gas N More	Ray joseph	Operator	05/22/18	6:00	11:00	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/22/18	11:30	16:30	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/22/18	7:00	12:30	5/20/2018	5/26/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/22/18	13:00	15:30	5/20/2018	5/26/2018	Tuesday	2.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/22/18	6:00	17:00	5/20/2018	5/26/2018	Tuesday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	7:00	12:00	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	12:30	15:30	5/20/2018	5/26/2018	Tuesday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	15:30	16:00	5/20/2018	5/26/2018	Tuesday	0.50
Parkers Gas N More	Ray joseph	Operator	05/23/18	6:00	11:00	5/20/2018	5/26/2018	Wednesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/23/18	11:30	16:00	5/20/2018	5/26/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	6:00	11:00	5/20/2018	5/26/2018	Wednesday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	11:30	14:30	5/20/2018	5/26/2018	Wednesday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	14:30	16:00	5/20/2018	5/26/2018	Wednesday	1.50
Parkers Gas N More	Ray joseph	Operator	05/24/18	6:00	11:00	5/20/2018	5/26/2018	Thursday	5.00
Davison Can N. Mara	Davissash	Occupan	05/04/40	11,20	45.00	E/00/0040	5/00/0040	Thomaster	2.50
Parkers Gas N More	Ray joseph	Operator	05/24/18	11:30	15:00	5/20/2018	5/26/2018	Thursday	3.50
Parkers Gas N More	Brandon Maus	Sr. Technician	05/29/18	11:00	17:00	5/27/2018	6/2/2018	Tuesday	6.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/05/18	8:00	17:00	6/3/2018	6/9/2018	Tuesday	9.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	06/05/18	8:00	17:00	6/3/2018	6/9/2018	Tuesday	9.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/06/18	5:30	15:30	6/3/2018	6/9/2018	Wednesday	10.00
Parkers Gas N More	Brandon Maus	Operator	06/06/18	15:30	17:00	6/3/2018	6/9/2018	Wednesday	1.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	06/06/18	5:30	17:00	6/3/2018	6/9/2018	Wednesday	
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/12/18	8:00	12:00	6/10/2018	6/16/2018	Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/12/18	13:00	17:00	6/10/2018	6/16/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	06/12/18	15:00	16:00	6/10/2018	6/16/2018	Tuesday	1.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/13/18	15:00	16:00	6/10/2018	6/16/2018	Wednesday	1 00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/18/18	8:00	12:00	6/17/2018	6/23/2018	Monday	
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/18/18	12:00	17:00	6/17/2018	6/23/2018	Monday	
Parkers Gas N More	Matthew Rives	Sr. Prof. Engineer	06/19/18	8:00	12:00	6/17/2018		Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/19/18	12:00	17:00	6/17/2018	6/23/2018	Tuesday	5.00
Parkers Gas N More	Matthew Rives	Sr. Admin. Assistant	06/27/18	8:00	12:00	6/24/2018	6/30/2018	Wednesday	
Parkers Gas N More	Matthew Rives	Sr. Admin. Assistant	06/27/18	13:00	17:00		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wednesday	

481.25

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Consultant's Materials Costs Form

Materials, Equipment, o	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description	Justification		
Metal Detector		.00	65.00	Day	\$.00
CCA-Field	Locate monitoring wells fo	r reconditioning in a	Aug 2013 & sam	pling in Oct	2014
Bailers		.00	25.00	Each	\$.00
CCA-Field	Recondition monitoring we	ells Aug 2013			
			100 01000000		
Bailers		.00	25.00	Each	\$.00
FP-Field	Amount Used Rate (\$) Unit Description/Justification .00 65.00 Day Locate monitoring wells for reconditioning in Aug 2013 & sampling in Oct 2014 .00 25.00 Each Recondition monitoring wells Aug 2013				
Bailers		.00	25.00	Each	\$.00
CCA-Field	Proposed post-abatement	monitoring wells			
				· •	
Water Level Indicator		1		-	\$.00
CCA-Field	Locate monitoring wells At	ug 2013 for recond	itioning (2 persor	nel using 1	indicator each)
Water Level Indicator		00	20.00	D	A A B
FP-Field	Free Broduct investigation	l		Day	\$.00
I I - F IGIU	Tree Floudet investigation	, removal & monic	9		
Water Level Indicator		.00	30.00	Dav	\$.00
CCA-Field	Oct 2014 groundwater san	<u> </u>			4.00
Water Level Indicator		.00	30.00	Day	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	tigation		
		<u> </u>			
Survey Equipment		.00	150.00	Day	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	stigation		

Materials, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description	Justification		
Vehicle (Mileage)		.00	.58	Mile	\$.00
CCA-Field	Overburden soil investigat	ion and reconditior	monitoring wells	s (Aug 2013)
Vehicle (Mileage)		.00	.58	Mile	\$.00
FP-Field	Free Product investigation	, removal & monito	ring		
Vehicle (Mileage)		.00	.58	Mile	\$.00
CCA-Field	Oct 2014 groundwater inv	estigation			
Vehicle		.00	175.00	Day	\$.00
CCA-Field	Proposed overburden rem	oval/replacement,	soil abatement &	backfilling	
Vehicle		.00	175.00	Day	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	tigation		
Hotel		.00	136.80	Night	\$.00
CCA-Field	Overburden investigation	& recondition monit	oring wells (2 pe	rsonnel x 4	nights)
Hotel		.00.	126.54	Night	\$.00
FP-Field	Free Product investigation	, removal & monito	ring		
Hotel		3.00	101.46	Night	\$304.38
CCA-Field	Proposed overburden rem	oval, soil abateme	nt & backfilling (2	personnel	x 16 nights)
Hotel		.00.	125.00	Night	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	tigation (2 perso	nnel x 4 nigl	nts)

Materials, Equipment, o	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description/	Justification		
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Overburden investigation a	& recondition monit	oring wells (2 pe	rsonnel x 5	days w/travel)
Per Diem		.00	42.00	Day	\$.00
FP-Field	Overburden investigation & recondition monitoring wells (2 personnel x 5 days w/ .00				
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Aug 2014 groundwater sa	mple collection (inc	ludes travel)		
		· · · · · · · · · · · · · · · · · · ·			
Per Diem	1	3.00	42.00	Day	\$126.00
CCA-Field	Proposed overburden rem	oval, soil abatemer	nt, backfilling (2 p	personnel x	20 days w/travel)
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	tigation (2 perso	nnel x 4 day	s w/travel)
Copies		.00.	30.00	Each	\$.00
CCAP	January 2014 CAP/Free P	roduct Removal Re	eport for O/O (1 o	copy) & IEP/	A (2 copies)
Copies		.00.	30.00	Each	\$.00
CA-Pay	Copies of reimbursement	application for O/O	& IEPA (1 each)		
Copies		.00	30.00	Each	\$.00
НАА	Copies of proposed HAA f	or O/O (1 copy) & I	DOT (2 copies)		
PID		.00	135.00	Day	\$.00
CCA-Field Proposed post-abatement groundwater investigation (2 personnel x 4 days w/travel) Copies .00 30.00 Each CCAP January 2014 CAP/Free Product Removal Report for O/O (1 copy) & IFPA (2 copies) Copies .00 30.00 Each CA-Pay Copies of reimbursement application for O/O & IEPA (1 each) Copies .00 30.00 Each HAA Copies of proposed HAA for O/O (1 copy) & IDOT (2 copies)					

Materials, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description	/Justification		
PID		.00	135.00	Day	\$.00
FP-Field	Free Product investigation	ı, installation of RW	/-1 and FP-1 thru	FP-3	
PID		15.00	85.00	Day	\$1,275.00
CCA-Field	Proposed overburden rem	oval/replacement &	& soil abatement	1	
PID		.00	135.00	Day	\$.00
CCA-Field	Proposed post-abatement	groundwater inves	stigation		
Grass Seed		1.00	563.82	item	\$563.82
CCA-Field	Grass Seed, Straw and SI	it seeder for reseed	d soil excavation	area	

Total of Consultant Materials Costs \$2,269.20



Stoney Creek - Quincy

Alan Curtiss 1647 Winch Rd Springfield IL 62707		Room No. Arrival	: 101 : 05-16-18
		Departure	: 05-17-18
Jnited States		Folio No.	: 101977
		AR No.	:
Company Name	:	Conf. No.	: 24063760
Group Name	:	Cashier No.	: 409
		Custom Ref.	:
		Page No.	: 1 of 1

Date	Description		Charges	Credits
05-16-18	Corporate Rate		89.00	
05-16-18	Hotel/Motel Tax		7.12	
05-16-18	State Hotel Tax		5.34	
05-17-18	Mastercard	XXXXXXXXXXXX6576 XX/XX		101.46
		Total Charges	101.46	
		Total Credits		101.46
		Balance		0.00
Guest Sig	gnature:	Ε	Date:	

I authorize Stoney Creek to charge my credit card in the manner indicated above.



Stoney Creek - Quincy

Room No.	: 212
Arrival	: 05-10 - 18
Departure	: 05-11-18
Folio No.	:101783
AR No.	:
Conf. No.	: 24007246
Cashier No.	: 609
Custom Ref.	;
Page No.	:1 of 1
	Arrival Departure Folio No. AR No. Conf. No. Cashier No. Custom Ref.

Date	Description	4	Charges	Credits
05-10-18	Corporate Rate		89.00	
05-10-18	Hotel/Motel Tax		7.12	
05-10-18	State Hotel Tax		5.34	
05-11-18	Mastercard	XXXXXXXXXXXX6576 XX/XX		101.46
		Total Charges	101.46	
		Total Credits		101.46
		Balance		0.00
Guest Sid	anaturo:	r	Date:	

I authorize Stoney Creek to charge my credit card in the manner indicated above.



Stoney Creek - Quincy

Alan Curtiss		Room No.	: 107
1647 Winch Rd		Arrival	: 05-08-18
Springfield IL 62707		Departure	: 05-09-18
United States		Folio No.	: 101738
		AR No.	:
Company Name	:	Conf. No.	; 23987492
Group Name	:	Cashier No.	: 409
		Custom Ref.	:
		Page No.	: 1 of 1

Date	Description		Charges	Credits
05-08-18	Corporate Rate		89.00	
05-08-18	Hotel/Motel Tax		7.12	
05-08-18	State Hotel Tax		5.34	
05-09-18	Mastercard	XXXXXXXXXXX6576 XX/XX		101.46
		Total Charges	101.46	
		Total Credits		101.46
		Balance		0.00
Guest Si	gnature:		, Date:	

I authorize Stoney Creek to charge my credit card in the manner indicated above.

3809 East Broadway Street, Quincy, IL 62305 Phone: 217-223-2255 | Fax: 217-223-8577 | Web: www.stoneycreekhotels.com

MIXER LUMBER COMPANY 101 S PARK ST CLAYTON, IL 62324 217-894-6412

SALE

D: 3506 Store: 0001 Term: 2418 REF#: 00000001 atch #: 038 RRN: 815714004544 /06/18 09:39:21

ans ID: 0606MCFLWBRJY
PR CODE: 070960

ASTERCARD Chip **/** 8160 **/**

MOUNT

\$3.83

APPROVED

ASTERCARD
D: A0000000041010
'R: 00 00 00 80 00
II: E8 00

Thank You Please Come Again

CUSTOMER COPY

Timberties & Brad nails for Sign repair



LOVE'S HOME CENTERS, LLC 3101 WEST VABASH SPRINGFIELD, IL 62704 (217) 787-2300

- SALE -

444961 4-4-12 TRENTED 42 GRADE T 19.36

SUBTOTAL: 19.36 TAX: 1.65 INVOTEE 02694 TOTAL: 21.01 W/C: 21.01

M/C:xxxxxxxxxxxx8160 AHOUNT:21.01 AUTHC0:017518 CHIP REFID:025802018028 06/05/18 16:09:23

CUSTOMER CODE: parkers

APL. MASTERCARD TVR: 0000008000

AID: A0000000041010 TSI: E800

STORE: 0250 TERHIHAL: 02 06/05/18 16:09:55 # OF ITEMS PURCHASED:

EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS



THANK YOU FOR SHOPPING LOVE'S.

SEE REVERSE SIDE FOR RETURN POLICY
STORE MANAGER: JOE NEUBAUER

LOVE'S PRICE MATCH GUARANTEE FUN MURE DETAILS, VISIT LOVES.COM/PRICEMATCH

YOUR OPINIONS COUNT!
REGISTER FOR A CHANCE TO BE

ONE OF FIVE \$300 WINNERS DRAWN MONTHLY!

TREGISTRESE EN EL SORTEO MENSUAL

PARA SER UNO DE LOS CINCO GANADORES DE \$300!

REGISTER BY COMPLETING H GUEST SATISFACTION SURVEY

VITHIN ONE WEEK Af: wow.lowes.com/survey

Y O U R T D # 02694 0258 156

NO PURCHASE NECESSARY TO EMFER OR WIN.

* VUID WHERE PROHIBITED. MUST BE 18 OR OLDER TO EMIER. *

* OFFICIAL RULES & WINNERS AI: www.lowes.com/survey *

\$108E: 0258 | FEMILIARE; 07 | 06/05/10 | 16:09:55

4x4x12 for sign report



Farm & Fome Windly 1803: Watash H. Epringfield, IL 52704 217-546-6633

LIST OUR WEBSITE HT MALEA MANDEL *FSUPPLY.COM

FROD IC (TOTAL	
BEED, GCLDS"AR	112	ESCU: 50	#	
52281074	1 EG	89 13	89.98	t
SEED, KENTLOKY	31 TAL	FI ICUE	50#	
52280606				t
STRAW BALE				
50000011	(i) E.4	5 19	89.85	t
SUBTOTAL		SOMME 1 (4 - 1)	249.81	
Tax 249 81	# 8.1	00% :	21.23	
XE			21.23	
TOTAL			271.04	
Store Coupen			21.23	
MasterCard			249.81	
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05/05/1E 09 2E:3E 01 56350046011 00000001 FARM & FOME VALUED CUSTOMER INVOICE #: 23022E6 WEID: TREGOIB CHES768A-7209-443E DECL-8A4E87DCTC4V 8025DB 2.93.6199 TTU ID: 0 Receipt is recurred for all refunds. A gift carc will be issued for returns with receipts ower SU day;

Authorization t: C93273

All checks purchases require a 14 day waiting period for refunds.

To submit your F3H E Raba 3, please go to www.farmanchomes.pply.com/rehates

F3H E-Rabates number by submitted online no later than two weeks after the ad ends.

/isit www.fanranchemesupp , .com to browse and buy from home.



15 straw bales
50 lbs Kentucky 31
50 lbs Premium Fescue
for re-seedings45prapertes

Rental Center

estronic Filing Spirited, Clerk's Office 10/23/2020 OPEN CONTRACT 0298145

217-245-4333

www.american-rental-center.com

EMPLOYEE

Caleb M. Wankel

Entered by CMW on 06-05-18

DO NOT PAY FROM THIS CONTRACT

CUSTOMER#		034766	P.O.#		JOB #	*		DATE OUT	06-05-18	
REN	ITED TO:	Case Co 2701 East Ash St Bl B	Richard Man	PHONE NUMBER(S	12321	670-1916 000-0000		TIME OUT	10:34am 06-07-18	
		Springfield, IL 62703		DRIVER'S	34766				10:34am	
		SAME		LICENSE #				DATE IN		
	/EVENT DRESS					1		TIME IN		
	EQUIPMENT	#	Meter			RENTAL RAT	ES (PER EAC	CH ITEM)		
TY.	DESCRIPTIO		Out/In	Hour	Minimum	Day	Week	4 Wee	ks Extended	
	3904-001	4			4 HRS					
1	Slit Se	eder, Self-propelled A		16.00	64.00	96.00			192.00	
								14.		

DAMAGE WAI	VER.

Dealer agrees to waive certain damages and loss claims against Customer, wi this contract, in consideration of the following:

% of gross rental charge Customer shall pay a fee of Provide a valid certificate of insurance naming the Dealer as an additional the subject equipment. Said insurance policy shall provide the primary coveramay be available to the Dealer.

***DAMAGE WAIVER DECLINED

I HAVE READ AND I AGREE TO THE CONTRACT TERMS ON THE BA CONSIST OF OUR ENTIRE AGREEMENT. NO ONE HAS ANY ORAL OR OTHER WRITTEN REPRESENTATIONS OR PROMISES NOT INCLUDED CUSTOMER SIGNATURE

IN THIS CONTRACT. I HEREBY ACKNOWLEDGE RECEIPT OF A COPY OF THIS CONTRACT.

YOU ARE CHARGED FOR THE TIME EQUIPMENT IS IN YOUR PO

AMERICAN RENTAL CENTER 328-S. MAIN ST JACKSONVILLE, IL 62650

06/05/2018

10:39:55

CREDIT CARD

MC SALE

	I'IC SALE		
Card # Chip Card: AID: ATC: ARQC: SEQ #: Batch #: INVOICE	XXXXXXXXXXXXXXXX1854 MASTERCARD A0000000041010 001F 2265A21BE57178A4 6 58 6	SUB TOTAL Damage Waiver TAX GRAND TOTAL	192.00 23.04 0.00 215.04
Approval Code: Entry Method: Mode: Tax Amount: Cust Code:	6 049784 Chip Read Issuer \$0.00	-MC BALANCE DUE	215.04

SALE AMOUNT

\$215.04

You Need It? We Rent It!

CUSTOMER COPY

HOURS: Equipment Rental Store Hours M-F 8-5 Sat 8-12

PAGE 1 OF 1

DEARWESTER GRAIN SERVICES, INC. CLAYTON ELEVATOR

105 E. MARION ST. CLAYTON, IL 62324 217-894-6561 www.dearwestergrain.com

Name	Chese t	nu.vonne	ate			
Address						
SOLD BY	CASH C.O.D.	CHARGE C	ON ACCT. MDSE	Phone:		
QUAN.		DESCRIPTION		PRIC	NE I	
					AN	OUNT
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CO	818 Receive By_		14	TAX		
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Parker's Gas & More Clayton, Illinois

LPC # 0010105006 IEMA #951012

4.0

OWNER/OPERATOR/P.E. BILLING CERTIFICATION

Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form

Under penalty of perjury as defined in Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2], I certify to the following:

The bills in the attached application for payment are for performing corrective action activities

	at Address: 101 East Outer Belt Drive	me Leaking Oi	iderground Stora	age rank site located	
	City: Clayton State:	IL	Zip:	62324	
•	The bills are for the billing period \underline{Dec} , \underline{Q} were incurred in conformance with the Environmental Pro			, <u>7018</u> and de 731, 732, or 734.	
•	The attached application for payment and all documents supervision of the licensed professional engineer or licens operator whose signatures are set forth below and in according personnel properly gathered and evaluated the inattached application for payment is, to the best of my known complete.	sed profession ordance with a nformation pro	al geologist and system designe vided. The infor	the owner and/or d to assure that mation in the	
•	The costs for remediating the above-listed incident are codetermined in accordance with Subpart H: Maximum Pay Analysis amounts, and Appendix E Personnel Titles and	ment Amount	s, Appendix D Sa	ample Handling and	
•	I am aware there are significant penalties for submitting fa EPA, including but not limited to fines, imprisonment, or b Protection Act [415 ILCS 5/44] and Section 32-2 of the Cr	alse statement ooth as provide riminal Code o	s or representati d in Section 44 of f 1961 [720 ILCS	ons to the Illinois of the Environmental 5 5/32 2. E	IVED
Ow	ner/Operator Name: Parker's Gas & More			AUG 1 6	2018
Aut	norized Representative*: Ted Parker			JEDAI	DOI
Add	dress: 2970 North 2050th Avenue	Phor	ne:		PUL
City	: Clayton State: IL		Zip: <u>62324</u>		-
Sig	nature: Toll Yul		Date:	6-29-10	_
Sul	oscribed and sworn to before me the 29 day of	Jun	e \	<u>/5018</u>	· andl
	37-6-5	Seal:	BRA	NOON MAUS	110
	(Notary Public)		Notary Ful	olic - State of Hindis	'nl
L.P	.E./L.P.G. Name: Matthew Rives		IPENS G SEA	on expires Jun 15; 2021	
L.P	.E./L.P.G. Illinois Registration No.: 062.069142	B1001	Ξ ∄PR	LICENSED S COPESSIONAL E COPES	
L.P	.E./L.P.G. Registration Expiration Date: Nov 30, 2019			ENGINEER E	
Coi	mpany Name: Chase Environmental Group, Inc.			LINOIS MILE	
Ad	dress: 2701 East Ash		Phone: (217)	670-1916	<u></u>
City	r: Springfield State: IL	-	Zip: 62704		
L.P	.E./L.P.G. Signature:		Date:\ _	-14-18	_
Su	bscribed and sworn to before me the9 day of	_ June.		2/018	
	57-6-5	Seal:		ON MAUS lal Seal	
	(Notary Public)	•	Notary Public	- State of Illinois expires Jun 19, 2021	
*Fo	or a corporation, a principal executive officer of at least the level or board of directors to sign the applicable document if a copy of the second or the copy of	of vice president he resolution, ce	or a person auth	prized by a resolution o	f

the corporation, is submitted with the document.

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

5.0

PRIVATE INSURANCE AFFIDAVIT AND QUESTIONAIRRE

Private Insurance Coverage Questionnaire

This form must be completed in full by all owners or operators, or their authorized representatives, that have a claim for payment from the State of Illinois Underground Storage Tank Fund for the labor, materials, overhead, and profit costs related to the investigation and/or remediation of a Leaking UST site.

1.	Sit	e Name: Parker's Gas & More									
	Ad	Address: 101 East Outer Belt Drive									
	Cit	y: Clayton State: IL Zip: 62324									
2.		Name of insurance company providing coverage for this Leaking UST site: NONE									
3.	Am	Amount of coverage provided: \$.00									
4.	Have you or your firm filed a claim against your insurance company for this Leaking UST site?										
		Yes No 🖂									
	a. If yes, how much is the claim? \$										
	b.	If no, explain why. No Coverage									
5.	Hav site	Have you or your firm received payment for a claim against your insurance company for this Leaking UST site?									
		Yes No 🖂									
	a.	If yes, how much and when? \$									
		Date:									
	b.	If no, explain why. No Coverage									
6.	Are you going to file a claim against your insurance policy? Yes No No										
	a.	If yes, how much and when? \$									
		Date:									
	b.	If no, explain why. No Coverage									

This Illinois EPA is authorized to request this information under the Environmental Protection Act, 415 ILCS 5/1 et seq. (formerly Ill. Rev. Stat. Ch 111-1/2, 1001 et seq.). Disclosure of this information is required. Failure to properly complete this form in its entirety may result in the delay or denial of any payment requested hereunder. This form has been approved by the Forms Management Center.

Private Insurance Affidavit

I,	Ted	Parker		, a duly authorized representative							
Parkers	Gas & More				•	_					
		(owner/operator or	firm's nan	ne)		· · · · · · · · · · · · · · · · · · ·					
hereby (certify thatPark (owner/oper		_ (does, does not)	does not							
insurand	ce coverage for all or part of the	•	m for pay	ment of Parker's G	•						
investiga	ation or remediation costs for v	vork performed at	-	Parker's Gas & More located (site name)							
101 E. C	Outer Belt Dr. Clayton, IL 6232					_					
		(address)									
l,	Ted Parker , (name)	Owner (title)	of _	Parker's Gas & More (owner/operate	or or firm's na	ıme)					
reimburs	nat, as of this date, the above in se the Illinois EPA for any over ole amount for each site.	nformation is accurate payment made by my	and con private i	nplete. Furthermore, nsurance company i	, I also agre n excess of	e to the					
Owner/C	Operator: Ted Parker - Parker	s Gas & More	Title	Owner		·					
Signatur	e: Tell Park		Date	: <u>6° 2-15</u>	I						
Subscrib	ped and sworn to before me the	e _ <u>D</u> day	of <u>JC</u>	we.	2015	<u> </u>					
0	Notary Public)	Seal	i harran	OFFICIAL S GINA L GO NOTARY PUBLIC STA MY COMMISSION EXPIR	ODIEL ATE OF ILLINOR						

The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder. This form has been approved by the Forms Management Center.

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

6.0

PAYMENT CERTIFICATION FORM

Payment Certification Form

the corporation, is submitted with the document.

This certification must be included with every application for payment from the UST Fund.
I, <u>Ted Parker</u> , the owner or operator of the Leaking UST(s) for which this application for payment is being submitted, certify that \$\frac{577}{244.80}\$ is the amount being sought in this application for payment, \$\frac{456}{141.29}\$ has already been paid from the Fund for this occurrence, and \$\frac{00}{100}\$ has been sent to the Illinois EPA for payment for this occurrence but has not yet been paid. I further certify that the number of petroleum USTs in Illinois presently owned or operated by the owner or operator, any subsidiary, parent or joint stock company of the owner or operator, and any company owned by any parent, subsidiary or joint stock company of the owner or operator is (check one):
Fewer than 101 🔀 101 or more 🗌
Except for applications for payment associated with Early Action, I certify that a plan for the work included in this application for payment was approved by the Illinois EPA on 5/20/2015; except for applications for payment associated with to 35 III. Adm. Code 731, certify that a budget for the work included in this application for payment was approved by the Illinois EPA on 5/20/2015; and certify that the amount sought for payment was expended in conformance with the approved budget and approved plan. I further certify that, if the costs included in this application for payment are approved for payment, the following limitations will not be exceeded:
 Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund for more than \$1,000,000 per occurrence for sites subject to 35 Ill. Adm. Code 731 or 732. (OR) Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund for more than \$1,500,000 per occurrence for sites subject to 35 Ill. Adm. Code 734.
 Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund incurred during a calendar year in excess of the following amounts:
For costs incurred in calendar years prior to 2002:
\$1,000,000, if fewer than 101 tanks are owned or operated in Illinois. \$2,000,000, if 101 or more tanks are owned or operated in Illinois.
For costs incurred in calendar years 2002 and later:
\$2,000,000, if fewer than 101 tanks are owned or operated in Illinois. \$3,000,000, if 101 or more tanks are owned or operated in Illinois.
Owner/Operator Name: Parker's Gas & More
Authorized Representative*: Ted Parker Title: Owner
Signature: Tel Colombia Date: 6-29-18
Subscribed and sworn to before me the 29 day of
Seal: BRANDON MÁUS
(Notary Public) Official Seal Notary Public – State of Illinois My Commission Expires Jun 19, 2021
*For a corporation, a principal executive officer of at least the level of vice president, or a person authorized by a resolution of the board of directors to sign the applicable document if a copy of the resolution, certified as a true copy by the secretary of

0354

Parker's Gas & More Clayton, Illinois LPC # 0010105006 IEMA #951012

7.0

W-9 FORM

Form W-9

(Rev. December 2014)
Department of the Treasury

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Interna	Revenue Service			LIOII IEMI		ana ooi	111100		I.K			send	to th	e IF	RS.	
	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Ted Perker															
ci 6	2 Business name/disregarded entity name, if different from above															
page	Parker's Gas & More															
Print or type Specific Instructions on p	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: ✓ Individual/sole proprietor or ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/es single-member LLC								/estate	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any)						
	Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P⇒partnership) ► Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.										Exemption from FATCA reporting code (if any)					
E E	Other (see Instruc									[Appl	îes la accou	nts maint	ained out	side the	U.S.)	
Ě	5 Address (number, s		or suite no.)				Red	queste	r's nan	e and a	ddress (d	ptiona	ıl)			
špe	2970 N. 2050th A															
99	6 City, state, and ZIP															
ŵ	Clayton, IL 62324															
	7 List account number	ar(s) here (option	al)													
Par	Taxpave	er Identifica	ation Number	(TIN)							· · · · · · · · · · · · · · · · · · ·					
	your TIN in the appro			· · · · · · · · · · · · · · · · · · ·	name di	ven on line 1	to avoid	5	Social	security	number					
backup withholding. For Individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a</i>				34	6	0-64-8908				8						
	page 3.							0	-	T.d	identification number					
	If the account is in n ines on whose numb		name, see the ins	tructions for it	ine 1 and	the chart on	page 4 fo	or L	-mpio)	uncauor	on number					
guide	ines on whose name	JEI TO EIREI.								-						
Par	Certifica	ation								Jl				!		
Under	penalties of perjury,	, I certify that:														
1. Th	e number shown on t	this form is my	y correct taxpayer	identification	number	or I am waitir	ng for a n	umbei	r to be	issued	to me);	and				
2. I arm not subject to backup withholding because: (a) I arm exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and																
3. I a	m a U.S. citizen or ot	ther U.S. perso	on (defined below)	; and												
	FATCA code(s) ente															
becau intere gener	ication instructions se you have failed to st paid, acquisition o ally, payments other ctions on page 3.	o report all inte or abandonmer	erest and dividend nt of secured proc	s on your tax reports. cancellat	return. Fo	or real estate ebt, contributi	transactions to an	ons, ite indivi	em 2 d idual r	does no etirema	ot apply. ent arrar	For r igems	nortga ent (IR	ige A), a	nd	
Sign Here		Tell!	Kall	<u></u>			Date ►	. 6	,	2 -	15					

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted. Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.lrs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- . Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- . Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be Issued),
- 2. Certify that you are not subject to backup withholding, or
- 3. Claim exemption from backup withholding if you are a U.S. exempt payee, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- 4. Certify that FATCA code(s) entered on this form (If any) indicating that you are exempt from the FATCA reporting, is correct. See What is FATCA reporting? on page 2 for further Information.



Waste Management • Remediation • Drilling Services

August 21, 2018

Illinois Environmental Protection Agency Bureau of Land LUST Unit P.O. Box 19276 Springfield, IL. 62794-9276

RE:

LPC# 0010105006 – Adams County Parker's Gas n' More / Clayton 101 East Outer Belt Drive IEMA #951012 0010105006-Adams County Parker's Gas & More Inc. Incident#951012 Leaking UST Technical File

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AUG 23 2018

IEPA-BOL
PERMIT SECTION

To whom it may concern:

Enclosed please find one (1) original and one (1) copy of the Corrective Action Progress Report for the above referenced site.

Should you have any questions or need additional information, please contact Chase Environmental Group, Inc. at 217-670-1916.

Sincerely,

Chase Environmental Group, Inc.

Alan M. Curtiss, PG Sr. Project Manager

REVIEWER JRM

RECEIVED

AUG 23 2018

IEPA-BOL PERMIT SECTION Electronic Filing: Received, Clerk's Office 10/20020006-Adams County

200201205006-Adams County Parker's Gas & More Inc. Incident#951012 Leaking UST Technical File

Progress Report

Parker's Gas and More / Clayton LPC #0010105006 LUST Incident #951012

Soil abatement activities proposed in the Corrective Action Plan (CAP) approved by the Illinois Environmental Protection Agency (Agency) on May 20, 2015 were completed between May 1, 2018 and June 06, 2018. During this period 7,763.5 tons of petroleum impacted soil resulting from IEMA #951012 were excavated and transported to Hickory Ridge Landfill located in Baylis, Illinois for disposal. The resulting excavation was backfilled with 7221.52 tons of fill screenings supplied by Central Stone Co.'s Florence Quarry located near Pittsfield, Illinois. 3,262.5 tons of clean overburden was temporarily stockpiled and returned to the excavation. To facilitate re-establishment of vegetation, 125.65 tons of soil was also transported to the site, spread out and re-seeded. Using the Agency's preferred 1.5 tons per cubic yard conversion factor, 5,175.67 yds³ of contaminated soil were abated, 2175 yds³ of overburden was returned to the excavation and 5244.91 yds³ of backfill materials were placed in the resulting excavation during the May/June 2018 soil abatement activities. All volumes are less than the soil approved for abatement, stockpiling and backfill volumes proposed and approved in the May 20, 2015 CAP & Budget. The May/June 2018 soil abatement activities included the abatement of accessible soil on-site exceeding the applicable Tier 2 objectives as well as off-site soil exceeding Tier 1 objectives.

A total of 59 soil samples were collected from the walls and floor of the excavations during the July/August 2016 soil abatement activities. The soil samples were collected on 20' intervals (or portions thereof when applicable) and analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and poly nuclear aromatics (PNAs). Results indicate that the Corrective Action mitigation was successful in removing accessible soil contamination exceeding applicable objectives as proposed in the May 2015 CAP. Chase will prepare a Highway Authority Agreement (HAA) with IDOT to mitigate residual soil contamination present in the IDOT R-O-W of Outer Belt Drive (IL Route 24).

Other activities proposed include replacement of 5,700 ft² of asphalt surface 4 inches thick. In the event Chase cannot locate a contractor to replace the pavement for the Agency's allotted Subpart H rate, the pavement replacement will be formally bid and a Budget amendment submitted. The Agency also approved replacement of eight (8) monitoring wells destroyed during Corrective Action. These well will be completed and sampled during August or September of 2018 (approximately 90 days following completion of soil abatement activities), as proposed. Once the post-abatement groundwater sampling event is complete, results will be used to update contaminant modeling distances and prepare the aforementioned IDOT HAA.

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Analytical results relative to the soil samples collected during the May/June 2018 soil abatement activities are summarized in the attached Table 1. Soil sample locations and limits from the May/June 2018 excavation are identified in the attached Figure 1. Additional supporting documentation is provided in this Progress Report as listed below.

Appendices:

- A- Photographic Documentation
- B- Laboratory Reports, Certifications,& Chain of Custody Forms
- C- Manifests of Soil Disposal
- **D- Scale Tickets of Backfill Materials**

TABLE 1 **Corrective Action Soil Analytical Summary**

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	МТВЕ
Tier 1 objectives			0.03	13	12	5.6	0.32
CA-1	10'	5/2/18	ND	ND	ND	ND	ND
CA-2	16'	5/2/18	ND	ND	ND	ND	0.0183
CA-3	10'	5/2/18	ND	ND	ND	ND .	0.0719
CA-4	10'	5/2/18	2.46	5.41	9.68	31.9	0.222
CA-5	10'	5/2/18	1.67	0.295	0.0179	0.249	<0.215
CA-6	10'	5/2/18	ND	ND ·	ND	ND	0.0751
CA-7	10'	5/2/18	ND	ND	ND	ND	ND
CA-8	16'	5/2/18	ND	0.00766	0.00715	ND	ND
CA-9	16'	5/2/18	ND	ND	ND	ND	0.0577
CA-10	16'	5/2/18	1.09	0.0582	ND	0.0277	0.567
CA-11	16'	5/3/18	ND	0.00521	0.00884	0.0228	<0.0604
CA-12	10'	5/3/18	3.39	2.93	0.415	13.3	0.250
CA-13	10'	5/4/18	ND	ND	ND	ND	ND
CA-14	10'	5/4/18	ND	ND	ND	0.0732	0.0352
CA-15	10'	5/4/18	ND	. ND	ND	ND	0.0536
CA-16	16'	5/4/18	ND	0.00946	0.00832	ND	ND
CA-17	16'	5/4/18	ND	ND	ND	ND	0.151
CA-18	10'	5/7/18	ND	ND	ND	ND	ND
CA-19	16'	5/8/18	ND	ND	ND	ND	0.00783
CA-20	16'	5/8/18	ND	0.00541	0.00924	ND	0.00623
Csat Limit ⁽¹⁾		••	580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 Ill. Adm. Code 742 Appendix A. Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

CA-25

CA-26

CA-27

CA-28

CA-29

CA-30

CA-31

CA-32

CA-34

CA-35

CA-36

CA-37

CA-38

CA-39

CA-40

Csat Limit(I)

10'

16'

16'

16'

10'

10'

10'

10'

10'

16'

16'

10'

10'

16'

16'

5/9/18

5/10/18

5/10/18

5/10/18

5/10/18

5/10/18

5/10/18

5/11/18

5/14/18

5/14/18

5/14/18

5/15/18

5/15/18

5/16/18

5/16/18

TABLE 1 **Corrective Action Soil Analytical Summary** results reported in mg/kg

4.93

0.515

0.146

24.0

1.49

0.0273

ND

ND

0.0109

ND

0.0081

0.0354

ND

0.019

ND

150

Total

Xylene

5.6

0.0411

28.8

2.4

0.0134

20.3

2.67

1.75

ND

7.49

0.0868

ND

ND

0.0455

ND

0.0322

0.156

ND

0.086

ND

110

12

1.13

0.512

0.156

ND

ND

0.0073

ND

ND

0.118

0.681

0.1

0.0065

ND

0.037

0.00778

290

MTBE

0.32

ND

0.0183

0.272

0.730

ND

ND

0.0151

0.0607

ND

ND

0.00729

ND

0.225

0.382

0.212

ND

ND

0.23200

0.102

11000

Location Depth Date Benzene Ethylbenzene Toluene Tier 1 objectives 0.03 13 . 10' 5/8/18 0.0662 0.00697 0.0284 CA-21 CA-22 5/8/18 5.91 16' 5.42 16.0 CA-23 16' 5/8/18 1.49 0.49 0.271 CA-24 16' 5/9/18 0.00601 ND ND

2.09

0.0796

0.0611

6.06

0.334

0.0503

ND

ND

0.212

0.59

0.107

0.0854

ND

0.011

0.00546

580

•	Bold -	Exceeds	Tier 1	Residential	RO

Shading - Exceeds Soil Saturation Limit (Csat)

^{(1) -} Derived from 35 Ill. Adm. Code 742 Appendix A. Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

TABLE 1 **Corrective Action Soil Analytical Summary**

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	мтве
Tier 1 objectives			0.03	13	12	5.6	0.32
CA-41	10'	5/16/18	3.77	6.45	18.8	33.1	0.394
. CA-42	16'	5/16/18	3.31	5.67	8.65	27.8	0.208
CA-43	10'	5/16/18	2.02	1.32	2.22	6.14	0.283
CA-44	6'	5/16/18	ND	ND	ND	ND	ND
CA-45	10'	5/17/18	ND	ND	ND	ND	ND
CA-46	6'	5/17/18	ND	ND	ND	ND	ND
CA-47	6'	5/17/18	0.195	0.613	0.645	8.19	ND
CA-48	16'	5/17/18	1.47	13.2	18.2	101	ND
CA-49	10'	5/17/18	0.119	0.143	0.172	2.46	ND_
CA-50	10'	5/17/18	0.24	0.0876	0.0183	0.0421	0.0923
CA-51	6'	5/17/18	ND	0.00589	0.00678	0.0356	ND
CA-52	6'	5/17/18	0.044	0.160	0.0051	0.136	0.0405
CA-53	10'	5/17/18	0.00428	0.00724	0.00817	ND	ND
CA-54	6'	5/18/18	ND	ND	ND	ND	ND
CA-55	10'	5/18/18	ND	ND	ND	ND	ND
CA-56	6'	5/18/18	ND	ND	ND	ND	ND
CA-57	6'	5/18/18	ND	ND	ND	ND	ND
CA-58	10'	5/18/18	ND .	ND	ND	ND	ND
CA-59	6'	5/18/18	ND	ND	ND	ND	ND
CA-60	6'	5/18/18	ND	ND	ND	ND.	ND
Csat Limit ⁽¹⁾			580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 III. Adm. Code 742 Appendix A.Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

TABLE 1
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	МТВЕ
Tier 1 objectives			0.03	13	12	5.6	0.32
CA-41	10'	5/16/18	3.77	6.45	18.8	33.1	0.394
CA-42	10'	5/16/18	3.31	5.67	8.65	27.8	0.208
CA-43	10'	5/16/18	2.02	1.32	2.22	6.14	0.283
CA-44	6'	5/16/18	ND	ND	ND	ND	ND
CA-45	6'	5/17/18	ND	ND	ND	ND	ND
CA-46	6'	5/17/18	ND	ND	ND	ND	ND
CA-47	6'	5/17/18	0.195	0.613	0.645	8.19	ND
CA-48	6'	5/17/18	1.47	13.2	18.2	101	ND
CA-49	10'	5/17/18	0.119	0.143	0.172	2.46	ND
CA-50	10'	5/17/18	0.24	0.0876	0.0183	0.0421	0.0923
CA-51	6'	5/17/18	ND	0.00589	0.00678	0.0356	ND
CA-52	6'	5/17/18	0.044	0.160	0.0051	0.136	0.0405
CA-53	10'	5/17/18	0.00428	0.00724	0.00817	ND	ND
CA-54	6'	5/18/18	ND	ND	ND	ND	ND
CA-55	10'	5/18/18	ND	ND	ND	ND	ND
CA-56	6'	5/18/18	ND	ND	ND	ND	ND
CA-57	6'	5/18/18	ND	ND	ND	ND	ND
CA-58	10'	5/18/18	ND	ND	ND	ND	ND
CA-59	6'	5/18/18	ND	ND	ND	ND	ND
CA-60	6'	5/18/18	ND	ND	ND	ND	ND
Csat Limit ⁽¹⁾			580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

^{(1) -} Derived from 35 III. Adm. Code 742 Appendix A. Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

TABLE 1 continued Corrective Action Soil Analytical Summary

results reported in mg/kg

						suits reported in this	7 5						
Location	Tier 1	CA-1	CA-2	CA-3	CA-4	CA-5	CA-6	CA-7	CA-8	CA-9	CA-10	CA-11	CA-12
Date	Objectives	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/3/18	5/3/18
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	85	ND	_ ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	· ND	ND	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ИD	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Рутепе	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

Location	Tier 1	CA-13	CA-14	CA-15	CA-16	CA-17	CA-18	CA-19	CA-20	l		
Date	Objectives	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/7/18	5/8/18	5/8/18			
Acenaphthene	570	ND	ND	ND	ND	ND	ND	· ND	ND			
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND			
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND		l	
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND			
Chrysene	88	ND	ND	ND	ND	ND	. ND	ND	ND			
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND			
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND			
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND			
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND			
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND			
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND			
Ругепе	2300	ND	ND	ND	ND	ND	ND	ND	ND			

Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

TABLE 1 continued Corrective Action Soil Analytical Summary

results reported in mg/kg

	results reported in rights												
Location	Tier 1	CA-21	CA-22	CA-23	CA-24	CA-25	CA-26	CA-27	CA-28	CA-29	CA-30	CA-31	CA-32
Date	Objectives	5/8/18	5/8/18	5/8/18	5/9/18	5/9/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/3/18	5/3/18
Acenaphthene	570	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	ND
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ŅD
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	0.773	0.472	ND	ND	ND
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

Location	Tier 1	CA-34	CA-35	CA-36	CA-37	CA-38	CA-39	CA-40				
Date	Objectives	5/14/18	5/14/18	5/14/18	5/15/18	5/15/18	5/16/18	5/16/18				
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND				
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND				
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ļ			
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND				
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	·			
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND				
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND				
Benzo(k)fluoranthene	9	ND	ND	ND	ND	· ND	ND	ND				
Chrysene	88	ND	· ND	ND	ND	ND	ND	ND				
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND				
Fluoranthene	3100	ND	ND	ND	ND	ND .	ND	ND				
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND				
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND				
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND				
Рутепе	2300	ND	ND	ND	ND	ND	ND	ND			1	

Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

TABLE 1 continued Corrective Action Soil Analytical Summary

results reported in mg/kg CA-43 CA-46 CA-52 CA-41 CA-42 CA-44 CA-45 CA-47 CA-48 CA-49 CA-50 CA-51 Location Tier 1 **Objectives** 5/16/18 5/16/18 5/16/18 5/16/18 5/17/18 5/17/18 5/17/18 5/17/18 5/17/18 5/17/18 5/17/18 5/17/18 Date 570 ND ND ND ND ND ND ND ND ND ND ND Acenaphthene ND ND ND ND ND ND ND ND ND ND ND ND Acenaphthylene 85 ND 12000 ND ND ND ND ND ND ND ND ND ND Anthracene ND ND 0.9 ND ND ND ND ND ND ND ND ND ND ND ND Benzo(a)anthracene Benzo(a)pyrene 0.09 ND ND ND ND ND ND ND ND ND ND ND ND Benzo(b)fluoranthene 0.9 ND ND ND ND ND ND ND ND ND ND ND ND Benzo(ghi)perylene 2300 ND ND ND ND ND ND ND ND ND ND ND ND Benzo(k)fluoranthene 9 ND ND ND ND ND ND ND ND ND ND ND ND 88 ND ND ND ND Chrysene ND ND ND ND ND ND ND ND Dibenzo(a,h)anthracene 0.09 ND ND ND ND ND ND ND ND ND ND ND ND Fluoranthene 3100 ND ND ND ND ND ND ND ND ND ND ND ND Fluorene 3100 ND ND ND ND ND ND ND ND ND ND ND ND Indeno(1,2,3-cd)pyrene 0.9 ND ND ND ND ND ND ND ND ND ND ND ND 1.8 ND 0.542 ND ND ND ND 0.387 ND ND ND ND ND Naphthalene 210 Phenanthrene ND ND ND ND ND ND ND ND ND ND ND ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO ND - Not Detected

ND

ND

2300

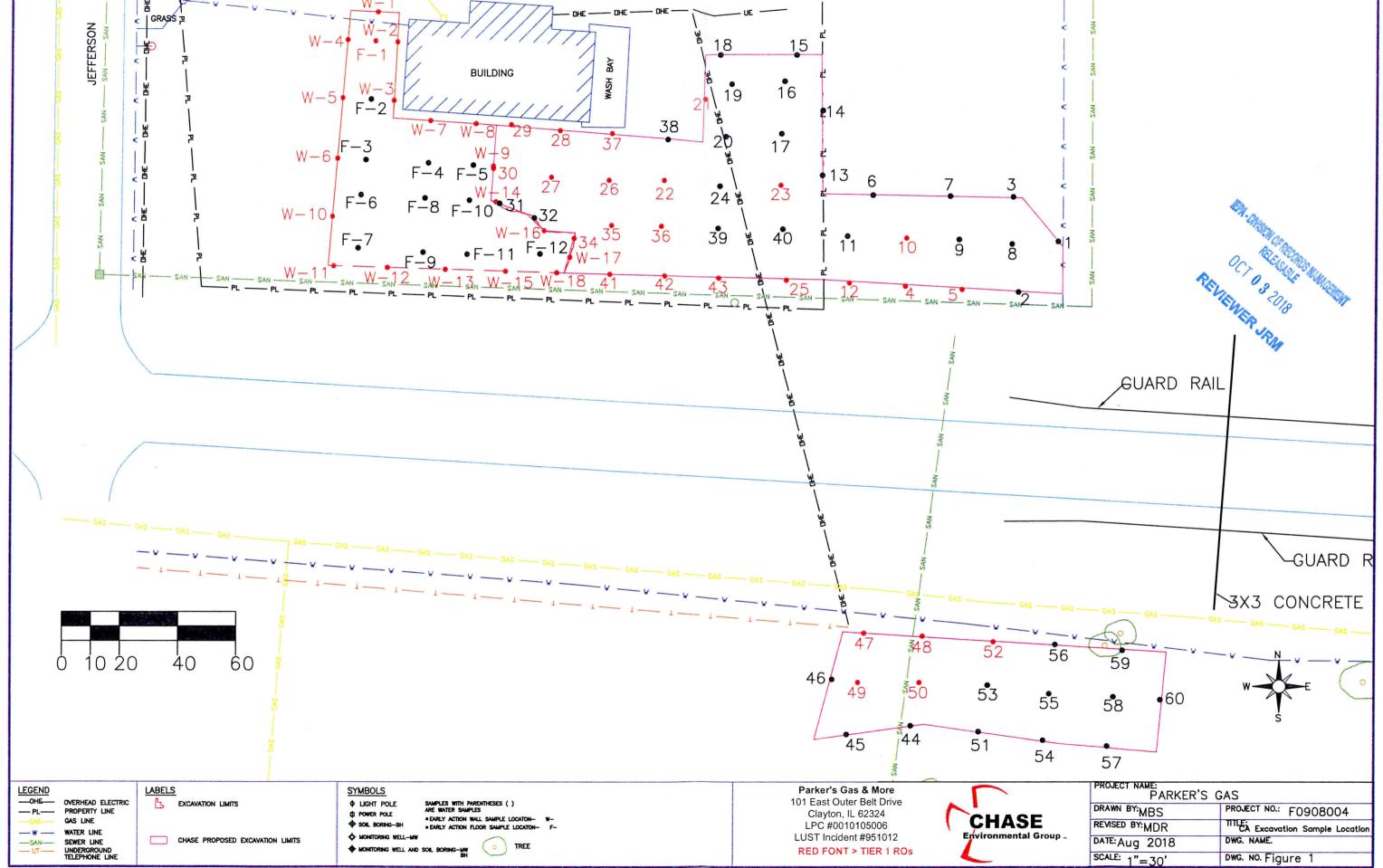
Location	Tier 1	CA-53	CA-54	CA-55	CA-56	CA-57	CA-58	CA-59	CA-60			
Date	Objectives	5/17/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18			
Acenaphthene	570	ЙD	ND			 Ī						
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND			
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND			
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	· ND	ND	ND			
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND		T	
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	•	T	
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND		1	
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND		1	
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	DИ	ND			
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND		1	
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND		1	
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND			

Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

Pyrene





Appendix APhotographic Documentation

Parker's Gas and More / Clayton May and June 2018



 The first phase of soil excavation and removal began on the offsite property east of the subject site. As proposed, the upper 5 feet of topsoil was temporarily stockpiled to provide access to underlying contaminated soils. After the soils were removed and the excavation partially backfilled, the clean topsoil was re-used to bring the site to grade. The surface was later reseeded.



2. The excavation progressed westward along the IDOT right-of-way to the property boundary, then northward onsite. Clean backfill was continuously brought in and graded using a skidsteer to prevent the excavation from becoming too large or unstable.



 The second phase of the excavation began in front of the station building then continued eastward and southward until it joined the first excavation phase or reached the IDOT right-of-way of IL Route 24.

Parker's Gas and More / Clayton May and June 2018



 Contaminated soils were loaded onto semi-trucks for transportation to the Hickory Ridge Landfill, Bayliss, IL.



5. The final (third) phase of soil excavation began off-site on the south side of IL Route 24. Surficial soils were temporarily stockpiled while contaminated soils were loaded on semi-trucks for disposal. The topsoil was later used to re-grade and seed the area.



 Once the excavation was complete the remaining backfill was delivered and the stockpiled topsoil spread to grade. Left side: edge of former station property; right: Offsite property restored to grade.

Appendix BLaboratory Analytical Reports



PDC Laboratories, Inc.

Friday, May 18, 2018

Matt Rives

Chase Environmental 2701 E Ash Springfield, IL 62704

TEL: (217) 670-1916 FAX: (217) 670-1682

RE: F0908004 / Parkers Gas & More Clayton, IL

PDC WO: 18E0317

PDC Laboratories, Inc. received 17 sample(s) on 5/11/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Kristen A. Potter

Project Manager

Certifications:

NELAP/NELAC - IL #100323

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

Lab ID: 18E0317-01

CA-I

Collection Date:	5/2/18	6:00
Analyses		

Analyses	Result	Limit	Qual Units	<u>DF</u>	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS		•		•			
*Benzene	U	0.00491	mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
*Ethylbenzene	U	0.00491	mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	U	0.00491	mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	Ж К
*Toluene	U	0.00491	mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	ЈКК
*Xylenes (total)	U	0.0147	mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS		•					
*Acenaphthene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈКА
*Acenaphthylene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Anthracene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JКА
*Benzo(k)fluoranthene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЛΚΑ
*Benzo(a)pyrene	U	0.0769	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈКА
*Chrysene	Ü	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0769	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Fluoranthene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Fluorene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
· *Naphthalene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	ЈКА
*Phenanthrene	U	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Рутепе	Ū	0.384	mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
Conventional Chemistry Parameter	rs							
Percent Solids	78.4	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

79.5

0.100

Lab Order: 18E0317

Client Sample ID:

Lab ID: 18E0317-02

CA-2

Matrix: Solid

Collection Date: 5/2/18 6:30

Conventional Chemistry Parameters

Percent Solids

Result Limit Qual Units DF **Date Prepared** Date Analyzed Method Analyses Analyst Volatile Organic Compounds by GC-MS *Benzene ·U 0.00468 mg/Kg dry 1 5/11/18 13:00 5/12/18 4:01 SW8260B R2 ЛΚК *Ethylbenzene U 0.00468 mg/Kg dry 1 5/11/18 13:00 5/12/18 4:01 SW8260B R2 JKK *Methyl tert-butyl ether 0.0183 0.00468 mg/Kg dry 1 5/11/18 13:00 5/12/18 4:01 SW8260B R2 JKK *Toluene U 0.00468 mg/Kg dry 1 5/11/18 13:00 5/12/18 4:01 SW8260B R2 **ЈКК** *Xylenes (total) U 0.0140 mg/Kg dry 1 5/11/18 13:00 5/12/18 4:01 SW8260B R2 ЛΚК Semi-Volatile Organic Compounds by GC-MS U 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 *Acenaphthene mg/Kg dry 1 **ЈΚ**Α *Acenaphthylene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **ЈΚ**Α *Anthracene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 JKA *Benzo(a)anthracene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **JKA** *Benzo(b)fluoranthene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 ΠKΑ *Benzo(k)fluoranthene U 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 mg/Kg dry **JKA** *Benzo(g,h,i)perylene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 JKA U 0.0740 5/14/18 10:05 5/15/18 4:44 SW8270C R3 *Benzo(a)pyrene mg/Kg dry JKA U 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **ЈΚ**Α *Chrysene mg/Kg dry 0.0740 U 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **ЈΚ**Α *Dibenz(a,h)anthracene mg/Kg dry H 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 *Fluoranthene mg/Kg dry **ЈКА** *Fluorene U 0.370 mg/Kg dry 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **ЈКА** *Indeno(1,2,3-cd)pyrene U 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 mg/Kg dry **ЈКА** *Naphthalene U 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **Ј**ΚΑ mg/Kg dry *Phenanthrene п 0.370 5/14/18 10:05 5/15/18 4:44 SW8270C R3 **ЈΚ**Α mg/Kg dry 1 U 5/14/18 10:05 5/15/18 4:44 SW8270C R3 *Pyrene 0.370 mg/Kg dry JKA

%

1

5/17/18 10:56

5/18/18 8:56

ASTM D2974

DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-3

Lab ID: 18E0317-03

Collection Date:	5/2/18	8:00	
A moltroso			

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	C-MS							
•Benzene	ប	0.00441	mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Ethylbenzene	U	0.00441	mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.0719	0.00441	mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Toluene	U	0.00441	mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Xylenes (total)	U	0.0132	mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	ΙΚΚ
Semi-Volatile Organic Compounds I	by GC-MS							
*Acenaphthene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈКА
*Acenaphthylene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈΚΑ
*Anthracene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈКА
*Benzo(k)fluoranthene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0708	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Chrysene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0708	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈΚА
*Fluoranthene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	ЈКА
*Fluorene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Naphthalene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Phenanthrene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Pyrene	U	0.354	mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
Conventional Chemistry Parameters	S							
Percent Solids	82.4	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-4

Lab ID: 18E0317-04

Collection Date:

5/2/18 8:00

Concension Date.	3/2/10 0.00			•						
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compo	unds by GC-MS									
*Benzene	-	2.46	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	ЛКК
*Ethylbenzene		5.41	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	JKK
*Methyl tert-butyl ether		0.222	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	ЈКК
*Toluene		9.68	0.487		mg/Kg dry	100	5/16/18 8:00	5/16/18 21:48	SW8260B R2	JKK
*Xylenes (total)		31.9	1.46		mg/Kg dry	100	5/16/18 8:00	5/16/18 21:48	SW8260B R2	ЈКК
Semi-Volatile Organic Co	ompounds by GC-N	AS	•							
*Acenaphthene		υ	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈКА
*Acenaphthylene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Anthracene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈКА
*Benzo(a)anthracene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈКА
*Benzo(b)fluoranthene		ប	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(k)fluoranthene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈКА
*Benzo(a)pyrene		ប	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЛΚΛ
*Chrysene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene		U	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈΚΑ
*Fluoranthene	•	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈКА
*Fluorene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Naphthalene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	ЈК Α
*Phenanthrene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Pyrene		U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
Conventional Chemistry	Parameters							•		
Percent Solids		82.0	0.100		%	. 1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-5

Lab ID: 18E0317-05

Collection Date:

5/2/18 9:00

Concetion Date.	5/2/10 7.00									
Analyses	R	esult	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	inds by GC-MS									
*Benzene		1.67	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Ethylbenzene	0	.295	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Methyl tert-butyl ether	0	.438	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Toluene	0.0	0179	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:55	SW8260B R2	ЛКК
*Xylenes (total)	0	.249	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:55	SW8260B R2	JKK
Semi-Volatile Organic Co	ompounds by GC-MS									
*Acenaphthene		υ	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈКА
*Acenaphthylene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Anthracene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JΚΑ
*Benzo(b)fluoranthene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(k)fluoranthene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(g,h,i)perylene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЛΚΑ
*Benzo(a)pyrene		U	0.0712		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈΚΑ
*Chrysene	•	U	0.356		mg/Kg dry	j	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene		U	0.0712		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JΚΑ
*Fluoranthene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈΚΑ
*Fluorene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈΚΑ
*Naphthalene		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JКА
*Phenanthrene	•	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
•Рутепе		U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	ЈΚΑ
Conventional Chemistry	Parameters							•		
Percent Solids	:	82.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-6

Lab ID: 18E0317-06

Collection Date:

5/2/18 9:30

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GO	C-MS								
*Benzene	U	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Ethylbenzene	ប	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0751	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Toluene	U	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	ЈКК
*Xylenes (total)	·U	0.0150		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	ΤΚΚ
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JКА
*Acenaphthylene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	Ј ΚΑ
*Anthracene	U.	0.346		mg/Kg dry	ı	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	Љ А
*Benzo(g,h,i)perylene	U	0.346	•	mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈКА
*Benzo(a)pyrene	U	0.0692		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈΚΑ
*Chrysene	· U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈКА
*Dibenz(a,h)anthracene	U	0.0692		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Fluorene	U	. 0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Naphthalene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈКА
*Phenanthrene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЈΚΑ
* Рутепе	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	ЛΚΑ
Conventional Chemistry Parameter	s								
Percent Solids	82.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-7

Lab ID: 18E0317-07

Collection Date:

5/2/18 11:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-N	18								
*Benzene	ប	0.00469	r	ng/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	ЛΚК
*Ethylbenzene	U	0.00469	r	ng/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	ЈКК
*Methyl tert-butyl ether	U	0.00469	τ	ng/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	ЈКК
*Toluene	U	0.00469	11	ng/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
*Xylenes (total)	U	0.0141	п	ng/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds by	GC-MS								
*Acenaphthene	U	0.373	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Acenaphthylene	U	0.373	π	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	ЈΚΑ
*Anthracene	U	0.373	0	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.373	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	ЈКА
*Benzo(b)fluoranthene	U	0.373	п	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	ប	0.373	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.373	п	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	Ј ΚΑ
*Benzo(a)pyrene	U	0.0746	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	ЈΚΑ
*Chrysene	U	0.373	п	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0746	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Fluoranthene	U	0.373	п	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKА
*Fluorene	U	0.373	п	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	Ј ΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.373	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Naphthalene	U	0.373	π	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	ЛКА
*Phenanthrene	U	0.373	n	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Pyrene	υ	. 0.373	π	ng/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

Lab ID: 18E0317-08

CA-8

Collection Date: 5/2/18 11:30

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by (GC-MS							-
*Benzene	U	0.00397	mg/Kg d	ry I	5/11/18 13:00	5/12/18 6:15	SW8260B R2	ЈКК
*Ethylbenzene	0.00766	0.00397	mg/Kg d	ry I	5/11/18 13:00	5/12/18 6:15	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	U	0.00397	mg/Kg d	ry l	5/11/18 13:00	5/12/18 6:15	SW8260B R2	ЛКК
*Toluene	0.00715	0.00397	mg/Kg d	ry 1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
*Xylenes (total)	υ	0.0119	mg/Kg d	ry 1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	ЖΚ
Semi-Volatile Organic Compound	ls by GC-MS		•					
*Acenaphthene	U	0.326	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈКА
*Acenaphthylene	U	0.326	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈΚΑ
*Anthracene	U	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	, U	0.326	mg/Kg d	ry I	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЛΚΑ
*Benzo(b)fluoranthene	ប	0.326	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JКА
*Benzo(g,h,i)perylene	· U	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	υ	0.0651	mg/Kg d	гу і	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Chrysene	Ü	0.326	mg/Kg d	ry l	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0651	mg/Kg d	ry I	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈКА
*Fluoranthene	U	0.326	mg/Kg d	ry I	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЛΚΑ
*Fluorene	·Ū	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈКА
*Naphthalene	U	0.326	mg/Kg d	ry I	5/14/18 13:52	5/15/18 2:23	SW8270C R3	ЈКА
*Phenanthrene	U	0.326	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Pyrene	U	0.326	mg/Kg d	ry 1 ·	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
Conventional Chemistry Paramete	ers							
Percent Solids	88.8	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-9

Lab ID: 18E0317-09

Collection Date:

5/2/18 13:30

Analyses	Result	Limit	Quat	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Ge	C-MS			· · · · · ·					
*Benzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JKK
*Ethylbenzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.0577	0.00441		mg/Kg dry	I	5/11/18 13:00	5/12/18 6:42	SW8260B R2	ЛКК
*Toluene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	ЛΚК
*Xylenes (total)	U	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	ЖΚ
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	Ј ΚΑ
*Acenaphthylene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈΚΑ
*Anthracene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈКА
*Benzo(b)fluoranthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	Ј ΚΑ
*Benzo(g,h,i)perylene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0687		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈΚΑ
*Chrysene	Ù	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈКА
*Dibenz(a,h)anthracene	U	0.0687		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Fluoranthene	U	0.344		mg/Kg dry	ì	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈΚΑ
*Fluorene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	Ј КΑ
*Indeno(1,2,3-cd)pyrene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	ЈКА
*Naphthalene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Phenanthrene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	Ј ΚΑ
*Pyrene	U	0.344		mg/Kg dry	I	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
Conventional Chemistry Parameter	rs						•		
Percent Solids	84.1	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-10

Lab ID: 18E0317-10

Collection Date:

5/2/18 13:30

									
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compound	s by GC-MS		•					_	
*Benzene	1.09	0.158		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:54	SW8260B R2	ЛΚК
*Ethylbenzene	0.0582	0.00489		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	JKK
*Methyl tert-butyl ether	0.567	0.158		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:54	SW8260B R2	ЈКК
*Toluene	U	0.00489		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	ЈКК
*Xylenes (total)	0.0277	0.0147		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	ЛКК
Semi-Volatile Organic Comp	oounds by GC-MS								
*Acenaphthene	υ	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	Ј ΚΑ
*Acenaphthylene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈКА
*Anthracene	Ū	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	บ	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	Љ А
*Benzo(b)fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	Л ΚΑ
*Benzo(g,h,i)perylene	U	0.377		mg/Kg dry	ì	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0754		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈΚΑ
*Chrysene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0754		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	Ј ΚΑ
*Fluorene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JКА
*Naphthalene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈКА
*Phenanthrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	ЈКА
*Pyrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
Conventional Chemistry Par	ameters								
Percent Solids	79.3	0.100		%	. 1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-11

Lab ID: 18E0317-11

Collection Date:

5/3/18 11:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds	s by GC-MS								
*Benzene	U	0.00478		mg/Kg dry	ı	5/14/18 8:00	5/14/18 22:28	SW8260B R2	ЈКК
*Ethylbenzene	0.00521	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
*Methyl tert-butyl ether	0.181	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	ЛКК
*Toluene	0.00884	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	ЛΚК
*Xylenes (total)	0.0228	0.0143		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	ЛКК
Semi-Volatile Organic Comp	ounds by GC-MS								
*Acenaphthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈКА
*Acenaphthylene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈΚΑ
*Anthracene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈКА
*Benzo(a)anthracene	U	0.345		mg/Kg dry	ı	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈК Α
*Benzo(b)fluoranthene	ប	0.345		mg/Kg dry	i	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	Ü	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0690		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈК Α
*Chrysene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0690		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Fluoranthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЛΚΑ
*Fluorene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЛΚΑ
*Indeno(1,2,3-cd)рутепе	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Naphthalene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Phenanthrene	υ	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЈК Α
*Pyrene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	ЛКА
Conventional Chemistry Para	ameters								
Percent Solids	82.9	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-12

Lab ID: 18E0317-12

Collection	Date:	5	1

5/3/18 13:00

Contourd Date.	3/3/10 13.00					Wateria. St			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compoun	ds by GC-MS								
*Benzene	3.39	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	ЈКК
*Ethylbenzene	2.93	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	JKK
*Methyl tert-butyl ether	0.250	0.00448		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:03	SW8260B R2	ЛКК
*Toluene	0.415	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	ЈКК
*Xylenes (total)	13.3	0.460		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	ЈКК
Semi-Volatile Organic Com	pounds by GC-MS								
*Acenaphthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JКА
*Acenaphthylene	υ	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Anthracene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(b)fluoranthene	υ	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(g,h,i)perylene	Ū	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈКА
*Benzo(a)pyrene	ប	0.0713		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	\$W8270C R3	ЈΚΑ
*Chrysene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JКА
*Dibenz(a,h)anthracene	U	0.0713		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈКА
*Fluoranthene	ប	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈΚΑ
*Fluorene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈК Α
*Indeno(1,2,3-cd)pyrene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈКА
*Naphthalene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	ЈΚΑ
*Phenanthrene	Ū	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	Ј ΚΑ
*Руге п е	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
Conventional Chemistry Pa	rameters								
Percent Solids	81.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Project:

CA-13

Client Sample ID:

Lab ID: 18E0317-13

Collection Date:

5/4/18 6:30

Concenton Date.	3/4/10 0.50						and .		
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	ands by GC-MS								
*Benzene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	ЛΚК
*Ethylbenzene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	ЛКК
*Toluene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JKK
*Xylenes (total)	U	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	ЛКК
Semi-Volatile Organic Co	ompounds by GC-MS								
*Acenaphthene	U	0.362		mg/Kg dry	1 ·	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Acenaphthylene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	Љ А
*Anthracene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	ЈКА
*Benzo(a)anthracene	บ	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.362	•	mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	ЈК Α
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0724		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	ЈКА
*Chrysene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	ЈКА
*Dibenz(a,h)anthracene	U	0.0724		mg/Kg dry	i	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Fluoranthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Fluorene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JКА
*Indeno(1,2,3-cd)pyrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	ЛΚΑ
*Phenanthrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Pyrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
Conventional Chemistry 1	Parameters								
Percent Solids	82.2	0.100		%	i	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-14

Lab ID: 18E0317-14

Matrix: Solid

Collection Date: 5/4/18 8:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS	S							
*Benzene	U	0.00478	mg/Kg dr	y 1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	ЛКК
*Ethylbenzene	U	0.00478	mg/Kg dr	y 1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.0352	0.00478	mg/Kg dr	y 1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	ЛКК
*Toluene	U	0.00478	mg/Kg dr	y 1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	ЛКК
*Xylenes (total)	0.0732	0.0144	mg/Kg dr	y I	5/11/18 13:00	5/12/18 8:57	SW8260B R2	ЈКК
Semi-Volatile Organic Compounds by G	C-MS							
*Acenaphthene	υ	0.365	mg/Kg dr	y 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Acenaphthylene	U	0.365	mg/Kg dr	y 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JКА
*Anthracene	U	0.365	mg/Kg dr	y 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.365	mg/Kg dr	y 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЛΚΑ
*Benzo(b)fluoranthene	U	0.365	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.365	mg/Kg dr	, 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	Ж Α
*Benzo(g,h,i)perylene	U	0.365	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0731	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЈΚΑ
*Chrysene	U	0.365	mg/Kg dr	/ i	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0731	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЈΚΑ
*Fluoranthene	U	0.365	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Fluorene	U	0.365	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.365	mg/Kg dr	/ 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.365	mg/Kg dr	, 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЛΚΑ
*Phenanthrene	U	0.365	mg/Kg dr	, 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	ЛΚΑ
•Рутепе	U	0.365	mg/Kg dr	, 1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
Conventional Chemistry Parameters								
Percent Solids	81.7	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-15

Lab ID: 18E0317-15

Date: 5/18/2018

Collection Date:

5/4/18 9:00

•••••••••••••••••••••••••••••••••••••••	10 3.00							
Analyses	Result	Limit	Qual Unit	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds	by GC-MS							
*Benzene	U	0.00420	mg/Kg o	lry 1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Ethylbenzene	U	0.00420	mg/Kg o	lry I	5/11/18 13:00	5/12/18 9:24	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	0.0536	0.00420	mg/Kg d	lry 1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	ЈКК
*Toluene	U	0.00420	mg/Kg d	lry 1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Xylenes (total)	U	0.0126	mg/Kg d	lry 1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	ЖК
Semi-Volatile Organic Compo	ounds by GC-MS					•		
*Acenaphthene	U	0.364	mg/Kg d	ry I	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.364	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JКА
*Anthracene	` υ	0.364	mg/Kg d	ry I	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.364	mg/Kg d	ry I	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.364	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈКА
*Benzo(k)fluoranthene	U	0.364	mg/Kg d	ry l	5/14/18 13:52	5/15/18 14:07	SW8270C R3	Љ Α
*Benzo(g,h,i)perylene	U	0.364	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЛΚΑ
*Benzo(a)pyrene	U	0.0727	mg/Kg d	ry I	, 5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Chrysene	U	0.364	mg/Kg d	ry I	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0727	mg/Kg d	гу і	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Fluoranthene	U	0.364	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Fluorene	U	0.364	mg/Kg d	ry I	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЛΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.364	mg/Kg d	гу 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Naphthalene	U	0.364	mg/Kg d	ry l	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.364	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
•Ругепе	U	0.364	mg/Kg d	ry 1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	ЛΚΑ
Conventional Chemistry Para	meters						<i>)</i>	
Percent Solids	80.7	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-16

Lab ID: 18E0317-16

Matrix: Solid

Collection Date: 5/4/18 12:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS							
*Benzene	U	0.00384	mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Ethylbenzene	0.00946	0.00384	mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00384	mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Toluene	0.00832	0.00384	mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	Ж
*Xylenes (total)	U	0.0115	mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51 .	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds	s by GC-MS							
*Acenaphthene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Acenaphthylene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Anthracene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	Ü	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.317	, mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U ·	0.0634	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Chrysene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈКА
*Dibenz(a,h)anthracene	U	0.0634	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Fluoranthene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈΚΑ
*Fluorene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЛΚΑ
*Naphthalene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈКА
*Phenanthrene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Pyrene	U	0.317	mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	ЈКА
Conventional Chemistry Parameter	ers	•						
Percent Solids	87.8	0.100	%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Client Sample ID:

CA-17

Lab ID: 18E0317-17

Collection Date:

5/4/18 14:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-	-MS								
*Benzene	U	0.00450		mg/Kg dry	ı	5/14/18 8:00	5/14/18 22:56	SW8260B R2	ЛКК
*Ethylbenzene	U	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	ЈКК
*Methyl tert-butyl ether	0.151	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	ЈКК
*Toluene	U	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	ЛΚК
*Xylenes (total)	U	0.0135		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	ЈКК
Semi-Volatile Organic Compounds b	y GC-MS				•				
*Acenaphthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Acenaphthylene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Anthracene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈК А
*Benzo(b)fluoranthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JКА
*Benzo(k)fluoranthene	บ่	0.327		mg/Kg dry	ľ	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
•Benzo(g,h,i)perylene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0655		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Chrysene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	`U	0.0655		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЛΚΑ
*Fluoranthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Fluorene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈКА
*Phenanthrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Pyrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameters				•			,		
Percent Solids	88.2	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018.

	LABORATORY RESULTS												
Client: Project:	Chase Environmental F0908004 / Parkers Gas & More Clayton, IL	Lab Order: 18E0317											
	Notes and Definition	s											
S	Spike recovery outside acceptance limits.												
R	RPD outside acceptance limits.												
I	Matrix interference.												
Cl	Analyte result confirmed by second analysis.												
•	NELAC certified compound.	•											
U	Analyte not detected (i.e. less than RL or MDL).	•											

Chain of Custody Record

Central IL - 1210 Capital Airport Driva - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 911/1 Virginis Rd., Ste 112 - Loke in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central / Southern IL Contact - Phone (217) 414-7762 - Facsenile (217) 753-1152



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Client	Chase Envir	inmental	C	ywp.	. Inc.	1 17.11	e e e e e e e e e e e e e e e e e e e	Analys	us andfor Method	Roqueste		R	porting
Address	2701 East	Ash	5+.		9 . B		1						CCDD
City, State, Zip Code	Springfield.		270	•) · ==	1 M						lol	Residential
Phone / Focsimile	217-670-					1 8						\\$ _	Industrial / Commercial
Project Name / Number	Parker's Gas			F090	18004	MTRE							
Project Location	Clayton IL	<u> </u>	-/-		OVV	1	-					3 0	8 □ €
P.O. # or Involce To	Client					∦ ≻	T					<u> </u>	
Coninct Person	Matt Rives	21	<u> </u>	261	111 ~ 1.1	18 18 18 18	2					10	Residential
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PAS COC - Chemical

Page | of 2_

Revision 4 February 20, 2017

Chain of Custody Record

Central IL - 1210 Capital Amont Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Sto. 112 - Lake in the Hills, IL 60156 - Phone (\$47) 651-2604 - Facsimile (847) 458-9680 Central / Southern ft. Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



February 20, 2017

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Project Location (52)	Clayton						(**********										A DE
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Electronic Filing: Received, Clerk's Office 10/23/2020 Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

Α.	51	te identification	`		
	ΙE	MA Incident # (6- or 8-digit):	951012	IEPA LPC# (10-digit): 00101056	006
	Si	te Name: Parker's Gas & Mo	ore / Clayton		
	Si	te Address (Not a P.O. Box):	101 East Outer Belt Drive		
	Ci	ity: Clayton	County: Adams	ZIP Code: 62324	
	Le	aking UST Technical File			
В.	Sa	imple Collector			
	Ιc	ertify that:			
	1.	Appropriate sampling equip	ment/methods were utilized to ol	otain representative samples.	WR
	2.	Chain-of-custody procedure	es were followed in the field.		(Initial)
	3.	Sample integrity was mainta	ained by proper preservation.		(Initial)
			manus of proper process ration.		(Initial)
	4.	All samples were properly la	abeled.		(Initial)
C.	La	boratory Representativ	e		, ,
	l ce	ertify that:			
	1.	Proper chain-of-custody pro	cedures were followed as docum	nented on the chain-of-custody forms	(Initial)
	2.	Sample integrity was mainta	nined by proper preservation.		(Initial)
	3.	All samples were properly la	beled		(Initial)
	4.	Quality assurance/quality co	ntrol procedures were establishe	d and carried out.	(Initial)
	5.	Sample holding times were	not exceeded.		

(Initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

(Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name Matthew Rives	Name LICHEN POHER
Title Engineer	Title Wol Warrage R
Company Chase Environmental Inc.	Company Prairie Analytical Systems, Inc. PI)C
Address 2701 East Ash St. Bldg. B	Address 1210 Capital Airport Drive
City Springfield	City Springfield
State IL	State IL
Zip Code 62703	Zip Code 62702
Phone 2176701916	Phone 217-753-/1148
Signature M	Signature Will All
Date <u>5/10/15</u>	Date
-	0/11/1



Friday, May 18, 2018

Matt Rives

Chase Environmental 2701 E Ash Springfield, IL 62704

TEL: (217) 670-1916 FAX: (217) 670-1682

RE: F0908004 / Parkers Gas & More Clayton, IL

PDC WO:

18E0318

PDC Laboratories, Inc. received 8 sample(s) on 5/11/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Kristen A. Potter

Project Manager

Certifications:

NELAP/NELAC - IL #100323

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-18

Lab ID: 18E0318-01

Collection Date:

5/7/18 13:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS							
*Benzene	U	0.00447	mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	ЛΚК
*Ethylbenzene	U	0.00447	mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00447	mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Toluene	U	0.00447	mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	Ж К
*Xylenes (total)	U	0.0134	mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS							
*Acenaphthene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JКА
*Anthracene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈΚ Α
*Benzo(a)anthracene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
*Benzo(b)fluoranthene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.365	mg/Kg dry	i	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
*Benzo(a)pyrene	U	0.0730	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Chrysene	ָ ט	0.365	. mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЛКА
*Dibenz(a,h)anthracene	U	0.0730	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
*Fluoranthene	U	0.365	mg/Kg dry	1 `	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Fluorene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	. ប	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Naphthalene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Phenanthrene	U	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈКА
* Рутепе	υ	0.365	mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameter	rs							
Percent Solids	81.3	0.100	%	1 .	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS
						•		

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-19

Lab ID: 18E0318-02

Collection Date:

5/8/18 13:30

Analyses	Result	Limit	A1	** **					
		Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GO									
*Benzene	ប	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Ethylbenzene	U	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	Ж К
*Methyl tert-butyl ether	0.00783	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Toluene	U	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	ЈКК
*Xylenes (total)	U	0.0151		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Acenaphthylene	U	0.348		mg/Kg dry	ì	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Anthracene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Benzo(a)anthracene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Benzo(a)pyrene	Ū	0.0696		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Chrysene	บ	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Dibenz(a,h)anthracene	U	0.0696		mg/Kg dry	ì	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JКА
*Fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Fluorene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Indeno(1,2,3-cd)pyrene	ប	0.348		mg/Kg dry	. 1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Naphthalene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Phenanthrene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	ЛКА
*Pyrene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
Conventional Chemistry Parameters	· }								
Percent Solids	82.2	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-20

Lab ID: 18E0318-03

Collection	Date:	5/8/18	13:45

	5/0/10 15.45					Matrix. 30	niu		
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compour	nds by GC-MS								
*Benzene	U	0.00428	1	mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	ЛКК
*Ethylbenzene	0.00541	0.00428	i	mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.00623	0.00428	1	mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	ЛКК
*Toluene	0.00924	0.00428	1	mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	ЛКК
*Xylenes (total)	U	0.0128	1	mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	ЛКК
Semi-Volatile Organic Cor	npounds by GC-MS								
*Acenaphthene	U	0.331	1	mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	ЛΚΑ
Acenaphthylene	U	0.331	ı	mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Anthracene	υ	0.331	ı	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.331		ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.331	ī	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.331	r	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JКА
*Benzo(g,h,i)perylene	U	0.331	r	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0662	r	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Chrysene	U	0.331	r	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0662	r	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	ЛКА
*Fluoranthene	U	0.331		ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	ЈК Α
*Fluorene	U	0.331	п	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.331	n	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	ЈКА
*Naphthalene	U	0.331	n	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	Ј ΚΑ
*Phenanthrene	U	0.331	π	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	Љ Α
*Pyrene	U	0.331	n	ng/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
Conventional Chemistry Pa	arameters								
Percent Solids	87.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-21

Lab ID: 18E0318-04

Collection Date:

5/8/18 14:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by C	GC-MS								
*Benzene	0.0662	0.00491		mg/Kg dry	ı	5/11/18 13:00	5/12/18 12:05	SW8260B R2	ЛΚК
*Ethylbenzene	0.00697	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	ЈКК
*Methyl tert-butyl ether	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	ЛΚК
*Toluene	0.0284	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	ЛΚК
*Xylenes (total)	0.0411	0.0147		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
Semi-Volatile Organic Compound	s by GC-MS.	·							
*Acenaphthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Acenaphthylene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JКА
*Anthracene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JКА
*Benzo(a)anthracene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	Ј ΚΑ
*Benzo(b)fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЛΚΑ
*Benzo(a)pyrene	U	0.0784		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Chrysene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	Ü	0.0784	•	mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈКА
*Fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Fluorene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Phenanthrene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
*Рутепе	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	ЈΚΑ
Conventional Chemistry Paramete	ers								
Percent Solids	76.1	0,100		. %	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS
		•							

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Lab ID: 18E0318-05

Client Sample ID:

CA-22

Collection Date:

5/8/18 14:15

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds l	by GC-MS								-
*Benzene	5.42	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 16:47	SW8260B R2	ЈКК
*Ethylbenzene	5.91	0.605		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	JKK
*Methyl tert-butyl ether	· U	0.00467		mg/Kg dry	1	5/11/18 8:00	5/12/18 16:08	SW8260B R2	ЈКК
· *Toluene	16.0	0.605		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	ЛКК
*Xylenes (total)	28.8	1.81		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	ЛКК
Semi-Volatile Organic Compo	unds by GC-MS	•							
*Acenaphthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Acenaphthylene	υ	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈКА
*Anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈК Α
*Benzo(a)anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	Ј ΚΑ
*Benzo(b)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈКА
*Benzo(a)pyrene	U	0.0723		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Chrysene	. U	. 0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0723		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
,*Fluoranthene	U	0.361	,	mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Fluorene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.361	•	mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Phenanthrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKΑ
*Pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	ЈΚΑ
Conventional Chemistry Parar	meters								
Percent Solids	82.7	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-23

Lab ID: 18E0318-06

•										
Collection Date:	5/8/18 14:30						Matrix: So	lid		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	nds by GC-MS									
*Benzene		1.49	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
*Ethylbenzene		0.490	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	ЛКК
*Methyl tert-butyl ether		0.272	0.00474		mg/Kg dry	1	5/11/18 8:00	5/12/18 16:35	SW8260B R2	JKK
*Toluene		0.271	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
*Xylenes (total)		2.40	0.466		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	ЖΚ
Semi-Volatile Organic Co	mpounds by GC-N	⁄IS								
*Acenaphthene		υ	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JКА
*Acenaphthylene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ЈΚΑ
*Anthracene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(k)fluoranthene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(g,h,i)perylene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(a)рутепе		U	0.0739		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Chrysene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ЛΚΑ
*Dibenz(a,h)anthracene		U	0.0739		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ЛКА
*Fluoranthene		· U	0.370		mg/Kg dry	i	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Fluorene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Naphthalene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Phenanthrene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ЛΚΑ
*Pyrene		U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	ΤΚΑ
Conventional Chemistry I	arameters									
Percent Solids		80.5	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

CA-24

Lab ID: 18E0318-07

Collection Date: 5/9/18 13:00

Conection Date.	3/3/10 13.00						Matitx. 30	nu		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	nds by GC-MS									
*Benzene		0.00601	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	ЛКК
*Ethylbenzene		U	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
*Methyl tert-butyl ether		0.730	0.152		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:44	SW8260B R2	ЛΚК
*Toluene		U	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
*Xylenes (total)		0.0134	0.0128		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
Semi-Volatile Organic Co	mpounds by GC-	MS								
*Acenaphthene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Acenaphthylene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JКА
*Anthracene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(b)fluoranthene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	ЈКА
*Benzo(k)fluoranthene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene		U	0.364		mg/Kg dry	i	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JКА
*Benzo(a)pyrene		U	0.0727		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Chrysene		Ū	0.364		mg/Kg dry	` 1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Dibenz(a,h)anthracene		Ü	0.0727		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Fluoranthene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Fluorene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Naphthalene		U	0.364	•	mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Phenanthrene		U	0.364		mg/Kg dry	i	5/15/18 10:33	5/16/18 1:02	SW8270C R3	ЈΚΑ
*Pyrene		U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKА
Conventional Chemistry I	Parameters									(
Percent Solids		82.3	0.100		%	l	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Client Sample ID:

CA-25

Lab ID: 18E0318-08

Collection Date: 5/9/18 13:15

Collection Date:	5/9/18 13:15					•	Matrix: So	lid		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compo	unds by GC-MS									
*Benzene		2.09	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	JKK
*Ethylbenzene		4.93	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	ЈКК
*Methyl tert-butyl ether		U	0.00502		mg/Kg dry	1	5/11/18 8:00	5/12/18 17:28	SW8260B R2	JKK
*Toluene		1.13	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	ЛКК
*Xylenes (total)		20.3	1.84		mg/Kg dry	100	5/16/18 8:00	5/16/18 17:19	SW8260B R2	ЈКК
Semi-Volatile Organic Co	ompounds by GC-N	AS		•						
*Acenaphthene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Acenaphthylene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Anthracene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(a)anthracene	•	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	Љ Α
*Benzo(b)fluoranthene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(k)fluoranthene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(g,h,i)perylene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(a)pyrene		U	0.0721		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Chrysene		' U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Dibenz(a,h)anthracene		U	0.0721		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	Љ А
*Fluoranthene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Fluorene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Naphthalene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Phenanthrene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Pyrene		U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
Conventional Chemistry	Parameters									
Percent Solids		81.7	0.100		% .	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

NELAC certified compound.

Analyte not detected (i.e. less than RL or MDL).

Date: 5/18/2018

	LABORATORY RESULTS								
Client: Project:	Chase Environmental F0908004 / Parkers Gas & More Clayton, IL	Lab Order: 18E0318							
	Notes and Definitions								
S1	Analyte exceeds the laboratory control sample acceptance criteria, but the	re is no observable concentration in the sample.							
S	Spike recovery outside acceptance limits.								
R	RPD outside acceptance limits.								
I	Matrix interference.								
C1	Analyte result confirmed by second analysis.								

Chain of Custody Record

Central II. - 1210 Capital Airport Criva - Springfield, II. 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
Chicago II. Office - 9114 Virginia Rd., Ste 112 - Labe in the Hills, II. 60166 - Phone (847) 651-2604 - Facsimile (847) 458-9680
Central / Southern II. Context - Phone (217) 414-7762 - Facsimile (217) 753-1152



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The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A.	Si	te Identification			
	ΙE	MA Incident # (6- or 8-digit):	951012	IEPA LPC# (10-digit):	0010105006
	Si	te Name: Parker's Gas & Mo	re / Clayton		
	Si	te Address (Not a P.O. Box):	101 East Outer Belt Drive		•
	Ci	ty: Clayton	County: Adams	ZIP Code:	62324
	Le	aking UST Technical File			
В.	Sa	mple Collector			
	Lo	ertify that:			á)
	1.	Appropriate sampling equip	ment/methods were utilized to	obtain representative samples.	(Initial)
	2.	Chain-of-custody procedure	es were followed in the field.		:AU) (Initial)
	3.	Sample integrity was mainta	ained by proper preservation.		(Initial)
	4.	All samples were properly la	abeled.		(Initial)
C.	Lal	boratory Representativ	е		
	I ce	ertify that:			140
•	1.	Proper chain-of-custody pro	cedures were followed as docu	umented on the chain-of-custody	forms (Initial)
	2.	Sample integrity was mainta	ined by proper preservation.		(Initial)
	3.	All samples were properly la	beled.		(Ihitial)
	4.	Quality assurance/quality co	ntrol procedures were establis	hed and carried out.	(Initial)
	5.	Sample holding times were	not exceeded.		\mathcal{W}

(Initial)

0406

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

(Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name Afan u Cutt3.	Name Kristen Po Her
Title Sr. PM	Title Proj Managen
Company Chase Environmental Group, Inc.	Company Prairie Analytical Systems, Inc.
Address 2701 East Ash Street, Bldg. B	Address 1210 Capitol Airport Drive
City Springfield	City Springfield
State Illinois	State Illinois
Zip Code 62703	Zip Code 62707-8490
Phone 217-676-1916	Phone 217-753-114/8
Signature Ulu U	Signature Signature
Date 5/9/18	Date
<i>'</i>	/ 9/1



Wednesday, May 23, 2018

Matt Rives

Chase Environmental 2701 E Ash Springfield, IL 62704

TEL: (217) 670-1916 FAX: (217) 670-1682

RE: F0908004-Parkers / Clayton, IL

PDC WO: 18E0371

PDC Laboratories, Inc. received 7 sample(s) on 5/15/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Kristen A. Potter

Project Manager

Certifications:

NELAP/NELAC - IL #100323

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004-Parkers / Clayton, IL

Lab Order: 18E0371

Client Sample ID:

Lab ID: 18E0371-01

CA 26

Collection Date:

5/10/18 10:30

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS								
*Benzene	0.0796	0.0217	J, M	mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Ethylbenzene	0.515	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	ЛКК
*Methyl tert-butyl ether	U	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	ЈКК
*Toluene	0.512	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Xylenes (total)	2.65	0.446		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds t	y GC-MS								
*Acenaphthene	Ū	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Acenaphthylene	U .	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JКА
*Anthracene	U	. 0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKА
*Benzo(a)anthracene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.359		mg/Kg dry	i	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(g,b,i)perylene	υ	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	Ј ΚΑ
*Вепzо(а)рутепе	U	0.0717		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Chrysene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0717		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	Љ А
*Fluoranthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Fluorene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	Љ А
*Naphthalene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	ЈКА
*Phenanthrene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Рутепе	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
Conventional Chemistry Parameters	3								
Percent Solids	83.2	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

CA 27

F0908004-Parkers / Clayton, IL

Lab ID: 18E0371-02

· Lab Order: 18E0371

Collection Date: 5/10/18 10:50

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Go	C-MS								
*Benzene	0.0611	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Ethylbenzene	0.146	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0151	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Toluene	0.156	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	ЈКК
*Xylenes (total)	1.75	0.330		mg/Kg dry	25	5/21/18 11:00	5/21/18 17:26	SW8260B R2	ΤКК
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Acenaphthylene	Ù	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Anthracene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(a)anthracene	ប	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0725		mg/Kg dry	1	5/16/18 10:06	. 5/16/18 23:55	SW8270C R3	JKA
*Chrysene	U	0.362	•	mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0725		mg/Kg dry	1 .	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
•Fluoranthene	U	0.362	•	mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Fluorene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	Љ А
*Indeno(1,2,3-cd)рутепе	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	ЈК Α
*Phenanthrene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Pyrene	· U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
Conventional Chemistry Parameter	·s								
Percent Solids	82.2	0.100		%	1.	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

F0908004-Parkers / Clayton, IL

Lab Order: 18E0371

Project:

Lab ID: 18E0371-03

Client Sample ID:

CA 28

Collection Date:

5/10/18 11:30

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by C	GC-MS								
*Benzene	6.06	2.62		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	ЛКК
*Ethylbenzene	24.0	2.62		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00421		mg/Kg dry	1	5/17/18 8:00	5/18/18 18:16	SW8260B R2	JKK
*Toluene	υ	0.00421		mg/Kg dry	1	5/17/18 8:00	5/18/18 18:16	SW8260B R2	JKK
*Xylenes (total)	60.7	7.85		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	ЈКК
Semi-Volatile Organic Compound	s by GC-MS		•						
*Acenaphthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Acenaphthylene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JКА
*Anthracene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(b)fluoranthene	Ü	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0757		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	ЈКА
*Chrysene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0757		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Fluoranthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Fluorene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Naphthalene	0.773	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	ЈКА
•Рутепе	. U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
Conventional Chemistry Paramete	ers					•			
Percent Solids	78.4	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004-Parkers / Clayton, IL

CA 29

Client Sample ID: Collection Date:

5/10/18 12:15

Lab Order: 18E0371

Lab ID: 18E0371-04

Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
GC-MS								
0.334	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
1.49	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	ЖК
ប	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	ЛКК
U	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
7.49	0.530		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
s by GC-MS								
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈΚΑ
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
U	0.364		mg/Kg dry	ı	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
ប	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
ប	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈΚΑ
υ	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈΚΑ
U	0.0728		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈКА
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈΚΑ
U	0.0728		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKА
, U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈΚΑ
ប	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ΤΚΑ
0.472	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЛΚΑ
U	0.364		mg/Kg dry	i	5/17/18 10:10	5/17/18 19:27	SW8270C R3	ЈКА
U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
ers		•						
80.9	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM
	GC-MS 0.334 1.49 U 7.49 s by GC-MS U U U U U U U U U U U U U	OC-MS 0.334 0.177 1.49 0.177 U 0.177 U 0.177 7.49 0.530 S by GC-MS U 0.364	OC-MS 0.334 0.177 1.49 0.177 U 0.177 U 0.177 7.49 0.530 S by GC-MS U 0.364	0.334 0.177 mg/Kg dry 1.49 0.177 mg/Kg dry U 0.177 mg/Kg dry U 0.177 mg/Kg dry T.49 0.530 mg/Kg dry 8 by GC-MS U 0.364 mg/Kg dry	0.334 0.177 mg/Kg dry 25 1.49 0.177 mg/Kg dry 25 U 0.177 mg/Kg dry 25 U 0.177 mg/Kg dry 25 T.49 0.530 mg/Kg dry 25 S by GC-MS U 0.364 mg/Kg dry 1	OC-MS 0.334 0.177 mg/Kg dry 25 5/17/18 8:00 1.49 0.177 mg/Kg dry 25 5/17/18 8:00 U 0.177 mg/Kg dry 25 5/17/18 8:00 U 0.177 mg/Kg dry 25 5/17/18 8:00 T.49 0.530 mg/Kg dry 25 5/17/18 8:00 7.49 0.530 mg/Kg dry 25 5/17/18 8:00 S by GC-MS U 0.364 mg/Kg dry 1 5/17/18 10:10	OC-MS 0.334	OC-MS 0.334 0.177 mg/Kg dry 25 5/17/18 8:00 5/17/18 19:43 SW8260B R2

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004-Parkers / Clayton, IL

Client Sample ID:

Collection Date:

CA 30

5/10/18 12:30

Lab Order: 18E0371

Lab ID: 18E0371-05

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by (GC-MS				•				
*Benzene	0.0503	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JKK
*Ethylbenzene	0.0273	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	U	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JKK
*Toluene	0.00730	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JKK
*Xylenes (total)	0.0868	0.0176		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	ЈКК
Semi-Volatile Organic Compound	ls by GC-MS								
*Acenaphthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ΤΚΑ
Acenaphthylene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JКA
*Anthracene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.362		mg/Kg dry	1 -	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0723		mg/Kg dry	ı	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЛΚΑ
*Chrysene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0723		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKА
*Fluoranthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈК Α
*Fluorene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Phenanthrene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЈΚΑ
*Ругепе	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	ЛΚΑ
Conventional Chemistry Paramete	ers								
Percent Solids	81.4	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004-Parkers / Clayton, IL

Lab Order: 18E0371

CA 31

Lab ID: 18E0371-06

Client Sample ID:

Matrix: Solid

Collection Date: 5/10/18 13:50

Conceilon Bate.	3/10/10 13.50								
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compo	unds by GC-MS								
*Benzene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	ЛКК
*Ethylbenzene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.00729	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
*Toluene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	ЛКК
*Xylenes (total)	U	0.0131		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	ЈКК
Semi-Volatile Organic Co	ompounds by GC-MS								
*Acenaphthene	U	0.356		mg/Kg dry	l	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Acenaphthylene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JКА
*Anthracene	U.	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	Ū	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈКА
*Benzo(a)pyrene	ប	0.0712		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Chrysene	ប	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene	Ú	0.0712		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Fluoranthene	ប	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Fluorene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Pyrene	U	0.356		mg/Kg dry	. 1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
Conventional Chemistry	Parameters	•							
Percent Solids	81.9	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004-Parkers / Clayton, IL

Lab Order: 18E0371

Client Sample ID:

Lab ID: 18E0371-07

CA 32

Matrix: Solid

Collection Date: 5/11/18 13:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-M	IS							
*Benzene	ΰ	0.00472	mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Ethylbenzene	U	0.00472	mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00472	mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Toluene	U	0.00472	mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Xylenes (total)	U	0.0142	mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds by	GC-MS							
*Acenaphthene	υ	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Acenaphthylene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈК Α
*Anthracene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЛΚΑ
*Benzo(a)pyrene	U	0.0700	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Chrysene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0700	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Fluoranthene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈКА
*Fluorene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈΚΑ
*Naphthalene	Ü	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Phenanthrene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈΚΑ
*Pyrene	U	0.350	mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameters								
Percent Solids	83.7	0.100	%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

Date: 5/23/2018

PDC Laboratories, Inc.

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	LABORATOR	Y RESULTS
Client:	Chase Environmental	
Project:	F0908004-Parkers / Clayton, IL	Lab Order: 18E0371
	Notes and Defin	itions
S1	Analyte exceeds the laboratory control sample acceptance criteria,	but there is no observable concentration in the sample.
S	Spike recovery outside acceptance limits.	
M	Reporting limit set between LOQ and MDL.	
J	Analyte detected between reporting level and MDL.	
I	Matrix interference.	
Cl	Analyte result confirmed by second analysis.	
•	NELAC certified compound.	
U	Analyte not detected (i.e. less than RL or MDL)	

Chain of Custody Record

- Cooks) IL - 1219 Capital Amort Drive - Springfield, IL 02707/8490 - Phone (217) 753-1148 - Facsim2e (217) 753-1152 Chicago II; Office - 2314 Miginia Rd., Ste 112 - Lake in the Hills, IL 60166 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central / Scuthway IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1157



February 20, 2017

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Freservative Code	0 - None		DW - Drinking 1 - HCI	water		Ground (2 - 11250-		NA - NO	3 - HNO3	s Liquid		S - Solid 4 - NaOH			O - Oil			Cirsor (Specify)
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Wednesday, May 30, 2018

Matt Rives

Chase Environmental 2701 E Ash Springfield, IL 62704

TEL: (217) 670-1916 FAX: (217) 670-1682

RE: F0908004P.F Parkers: Clayton, IL

PDC WO:

18E0511

PDC Laboratories, Inc. received 15 sample(s) on 5/21/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Kristen A. Potter

Project Manager

Certifications:

NELAP/NELAC - IL #100323

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID: Collection Date:

CA 39

5/16/18 8:30

Lab Order: 18E0511

Lab ID: 18E0511-01

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS								
*Benzene	0.0107	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	ЛКК
*Ethylbenzene	0.0190	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.232	0.109		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:23	SW8260B R2	JKK
*Toluene	0.0372	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	ЛКК
*Xylenes (total)	0.0861	0.0119		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds b	y GC-MS			•					
*Acenaphthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЈΚΑ
*Anthracene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0721		mg/Kg dry	ļ	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Chrysene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0721		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Fluoranthene	. U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Fluorene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.360		mg/Kg dry	t	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Naphthalene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Phenanthrene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	Ј ΚΑ
*Рутепе	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	ЛКА
Conventional Chemistry Parameters									
Percent Solids	82.4	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

CA 40

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Lab ID: 18E0511-02

Matrix: Solid

Collection Date: 5/16/18 9:00

Analyses	Result	Limit	Qual	Jnits DF	Date Prep	ared	Date Analyzee	Method	Analyst
Volatile Organic Compounds by C	GC-MS	-		·			•		-
*Benzene	0.00546	0.00370	mg/l	Kg dry 1	5/29/18	8:00	5/30/18 8:26	SW8260B R2	ЛКК
*Ethylbenzene	U	0.00490	mg/l	ζgdry I	5/22/18 1	11:00	5/23/18 2:40	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	0.102	0.00370	mg/l	Kg dry 1	5/29/18	8:00	5/30/18 8:26	SW8260B R2	JKK
*Toluene	0.00778	0.00490	mg/l	Cg dry 1	5/22/18 1	11:00	5/23/18 2:40	SW8260B R2	JKK
*Xylenes (total)	U	0.0147	mg/l	Cg dry 1	5/22/18 1	1:00	5/23/18 2:40	SW8260B R2	ЛКК
Semi-Volatile Organic Compound	s by GC-MS								
*Acenaphthene	U	0.353	mg/l	(g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	`ЈКА
*Acenaphthylene	U	0.353	mg/l	(g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Anthracene	Ü	0.353	mg/l	Cg dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.353	mg/l	(gdry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.353	mg/l	(g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JКА
*Benzo(k)fluoranthene	U	0.353	mg/I	Cg dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKА
*Benzo(g,h,i)perylene	U	0.353	mg/I	(g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0706	mg/I	Cg dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	ЈΚΑ
*Chrysene	U	0.353	mg/I	(g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	ЛΚΑ
*Dibenz(a,h)anthracene	, U	0.0706	mg/I	Cg dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JКА
*Fluoranthene	U	0.353	mg/I	Egdury I	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Fluorene	U	0.353	mg/I	Eg dry I	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	Љ А
*Indeno(1,2,3-cd)pyrene	U	0.353	mg/I	lg dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	Љ А
*Naphthalene	U	0.353	mg/l	g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Phenanthrene	U	0.353	mg/l	g dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	JKA
*Pyrene	U	0.353	mg/I	ig dry 1	5/22/18 1	5:45	5/23/18 19:23	SW8270C R3	ЈΚΑ
Conventional Chemistry Paramete	ers								
Percent Solids	81.8	0.100	Ġ	6 1	5/24/18 1	0:04	5/25/18 10:02	ASTM D2974	DMS

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

CA 41

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Lab ID: 18E0511-03

Collection Date:

5/16/18 10:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	C-MS						·		
*Benzene	3.77	0.153		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:50	SW8260B R2	ЈКК
*Ethylbenzene	6.45	0.612		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.394	0.153		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:50	SW8260B R2	ЛΚК
*Toluene	18.8	0.612		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	JKK
*Xylenes (total)	33.1	1.84		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds t	y GC-MS								
*Acenaphthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Acenaphthylene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЈКА
*Anthracene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	Ж Α
*Benzo(a)anthracene	U	0.367		mg/Kg dry	ı	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЈКА
*Benzo(k)fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKА
*Benzo(g,h,i)perylene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0733		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЈΚΑ
*Chrysene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЛΚΑ
*Dibenz(a,h)anthracene	U	0.0733		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЛΚΑ
*Fluorene	U	0.367		mg/Kg dry	ì	5/22/18 15:45	5/23/18 19:56	SW8270C R3	Ј ΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JКА
*Naphthalene .	, U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЛΚΑ
*Phenanthrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JКА
*Pyrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	ЈКА
Conventional Chemistry Parameters									
Percent Solids	81.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

CA 42

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Lab ID: 18E0511-04

Matrix: Solid

Collection Date: 5/16/18 10:10

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS								
*Benzene	3.31	0.113		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:17	SW8260B R2	JKK
*Ethylbenzene .	5.67	0.452		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.208	0.113		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:17	SW8260B R2	JKK
*Toluene	8.65	0.452		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	ЛКК
*Xylenes (total)	27.8	1.36		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.351	•	mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	ЈКА
*Acenaphthylene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JКА
*Anthracene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	ЈК Α
*Benzo(a)anthracene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(g,h,i)perylene	· U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(a)pyrene	บ	0.0701		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	ЈК Α
*Chrysene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Dibenz(a,h)anthracene	υ	0.0701		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JКА
*Fluorene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.351		mg/Kg dry	<u>,</u> 1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	ЈКА
*Naphthalene	0.524	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	ЈКА
*Phenanthrene	Ú	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Pyrene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
Conventional Chemistry Parameter	·s								
Percent Solids	80.7	0.100		%	1 •	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

*Pyrene

Percent Solids

Conventional Chemistry Parameters

Client Sample ID:

Collection Date:

F0908004P.F Parkers: Clayton, IL

5/16/18 11:45

CA 43

U

82.8

0.346

0.100

Lab Order: 18E0511

5/22/18 15:45

5/24/18 10:04

5/23/18 21:03

5/25/18 10:02

SW8270C R3

ASTM D2974 DMS

ЈКА

Lab ID: 18E0511-05

Matrix: Solid

Analyses	Result	Llmit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS								
*Benzene	2.02	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Ethylbenzene	1.32	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Methyl tert-butyl ether	0.283	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	ЈКК
*Toluene	2.22	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	ЈКК
*Xylenes (total)	6.14	0.340		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds b	y GC-MS								
*Acenaphthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JКА
*Acenaphthylene	ប	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	Ж Α
*Anthracene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	ЈК Α
*Benzo(b)fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	· ЛКА
*Benzo(g,h,i)perylene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0691		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Chrysene.	U	0.346		mg/Kg dry	ı	5/22/18 15:45	5/23/18 21:03	SW8270C R3	ЈК Α
*Dibenz(a,h)anthracene	U	0.0691		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	ЛΚΑ
*Fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	Ј ΚΑ
*Fluorene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	, U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Naphthalene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	ЈКА
*Phenanthrene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA

mg/Kg dry

%

1

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Client Sample ID:

CA 44

Lab ID: 18E0511-06

Collection Date:	5/16/18 12:30		
Analyses		Result	
Volatile Organic Comp	pounds by GC-MS		
		• • •	

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS								
*Benzene	U	0.00495	mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Ethylbenzene	U	0.00495	mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	ЈКК
*Methyl tert-butyl ether	U	0.00495	mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	ЛΚК
*Toluene	U	0.00495	mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Xylenes (total)	υ	0.0149	mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	ЖΚ
Semi-Volatile Organic Compounds by GC	C-MS							
*Acenaphthene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЈΚΑ
*Acenaphthylene	υ	0.365	mg/Kg dry	ı	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Anthracene	υ	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	•JKA
*Benzo(a)anthracene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	υ	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	ប	0.0730	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Chrysene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0730	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Fluoranthene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЈΚΑ
*Fluorene ·	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Naphthalene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЈКА
*Phenanthrene	. υ	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Pyrene	U	0.365	mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	ЈКА
Conventional Chemistry Parameters					•			
Percent Solids	81.0	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID: Collection Date:

CA 45

Lab Order: 18E0511

Lab ID: 18E0511-07

5/17/18 8:00

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS								-
*Benzene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Ethylbenzene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	ЈКК
*Toluene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	ЛКК
*Xylenes (total)	U	0.0153		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
Semi-Volatile Organic Compounds b	y GC-MS								
*Acenaphthene	U	0.359 -		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Acenaphthylene	υ	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	Ј ΚΑ
*Anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈКА
*Benzo(b)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0718		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Chrysene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈК Α
*Dibenz(a,h)anthracene	U	0.0718		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈКА
*Fluoranthene .	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈΚΑ
*Fluorene	ប	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKА
*Indeno(1,2,3-cd)pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Naphthalene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Phenanthrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameters									
Percent Solids	81.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS.

Client:

Client Sample ID:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

CA 46

Lab Order: 18E0511

Lab ID: 18E0511-08

Collection Date:	5/17/18 9:00					Matrix: So	olid		
Analyses		Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	inds by GC-MS								
*Benzene		U	0.00452	mg/Kg dry	1.	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Ethylbenzene		U	0.00452	mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Methyl tert-butyl ether		U	0.00452	mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Toluene		U	0.00452	mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Xylenes (total)		U	0.0136	mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	πк
Semi-Volatile Organic Co	mpounds by GC-N	1S						•	
*Acenaphthene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Acenaphthylene		U·	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	ЛΚΑ
*Anthracene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(b)fluoranthene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(a)pyrene		U	0.0719	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Chrysene		u [.]	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Dibenz(a,h)anthracene		U	0.0719	mg/Kg dry	ŀ	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Fluoranthene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Fluorene	•	U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Naphthalene		υ	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	Љ Α
*Phenanthrene		· U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	Ж Α
*Pyrene		U	0.359	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
Conventional Chemistry	Parameters								
Percent Solids		83.5	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

Collection Date:

F0908004P.F Parkers: Clayton, IL

CA 47

5/17/18 10:00

Lab Order: 18E0511

Lab ID: 18E0511-09

•••••							, iid		
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS								
*Benzene	0.195	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	ЈКК
*Ethylbenzene	0.613	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	ЈКК
*Methyl tert-butyl ether	U	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	ЛΚК
*Toluene	0.645	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	ЛΚК
*Xylenes (total)	8.19	0.315		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
Semi-Volatile Organic Compounds	s by GC-MS					•			
*Acenaphthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Acenaphthylene	υ	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈΚΑ
*Anthracene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(a)anthracene	, U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	Ū	0.0706		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈКА
*Chrysene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Dibenz(a,h)anthracene	Ü	0.0706		mg/Kg dry	i	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Fluorene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈΚΑ
*Naphthalene	0.387	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JКА
*Phenanthrene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	ЈКА
*Pyrene	U	0.353	•	mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
Conventional Chemistry Paramete	rs								
Percent Solids	83.1	0.100	•	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS
		•							

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID: Collection Date: CA 48

5/17/18 11:30

Lab Order: 18E0511

Lab ID: 18E0511-10

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-	MS								
*Benzene	1.47	0.118		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:11	SW8260B R2	JKK
*Ethylbenzene	13.2	2.35		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.118		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:11	SW8260B R2	ЛКК
*Toluene	18.2	2.35		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	ЛКК
*Xylenes (total)	101	7.06		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	ЈКК
Semi-Volatile Organic Compounds by	GC-MS								
*Acenaphthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	Љ А
*Anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЈК Α
*Benzo(g,h,i)perylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0695		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЛΚΑ
*Chrysene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0695		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЛΚΑ
*Fluorene	Ü	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Naphthalene	U	0.348		mg/Kg dry	i	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Phenanthrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Client Sample ID:

CA 49

Lab ID: 18E0511-11

Matrix: Solid

Collection Date: 5/17/18 12:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Go	C-MS							
*Benzene	0.119	0.100	mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	ЛКК
*Ethylbenzene	0.143	0.100	mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	ЛКК
*Methyl tert-butyl ether	U	0.100	mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	ЛКК
*Toluene	0.172	0.100	mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	ЛКК
*Xylenes (total)	2.46	0.301	mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS							
*Acenaphthene	Ū	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	Љ А
*Acenaphthylene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Anthracene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЛΚΑ
*Benzo(b)fluoranthene	U	0.337	mg/Kg dry	ì	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JКА
*Benzo(k)fluoranthene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JΚΑ
*Benzo(g,h,i)perylene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0674	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЈΚΑ
*Chrysene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JКA
*Dibenz(a,h)anthracene	U	0.0674	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЈК Α
*Fluoranthene	U	0.337	' mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Fluorene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЈКА
*Naphthalene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	ЛΚΑ
*Phenanthrene	U	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
* Ругепе	υ	0.337	mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
Conventional Chemistry Parameter	·s							
Percent Solids	86.3	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID: **Collection Date:**

CA 50

5/17/18 12:15

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Lab ID: 18E0511-12

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compour	nds by GC-MS								
*Benzene	0.240	0.0979		mg/Kg dry	25	5/24/18 9:00	5/24/18 21:49	SW8260B R2	JKK
*Ethylbenzene	0.0876	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0923	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JKK
*Toluene	0.0183	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JKK
*Xylenes (total)	0.0421	0.0112		mg/Kg dry	1	5/22/18 12:55	. 5/23/18 10:52	SW8260B R2	JKK
Semi-Volatile Organic Con	mpounds by GC-MS								
*Acenaphthene	U	0.337		mg/Kg dry	1	· 5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЛΚΑ
*Acenaphthylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЛΚΑ
*Benzo(b)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЛΚΑ
*Chrysene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	Ŭ	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Fluoranthene	Ŭ	0.337		mg/Kg dry	i	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Fluorene	. U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	* SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Naphthalene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Phenanthrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	ΙΚΑ
Conventional Chemistry P	arameters								
Percent Solids	88.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

1 07000011.1

Client Sample ID: Collection Date: CA 51 5/17/18 13:00 Lab Order: 18E0511

Lab ID: 18E0511-13

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Go	C-MS								
*Benzene	U	0.00400	mg	/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Ethylbenzene	0.00589	0.00400	mg	/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00400	mg	/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Toluene	0.00678	0.00400		/Kg dry	i	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Xylenes (total)	0.0356	0.0120	mg	/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
Semi-Volatile Organic Compounds	by GC-MS						•		
*Acenaphthene	, U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈКА
*Acenaphthylene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	Љ А
*Anthracene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.348	mg	/Кд фгу	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	Љ А
*Benzo(k)fluoranthene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.348		/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0696	mg	/Kg dry_	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Chrysene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Dibenz(a,h)anthracene	Ū	0.0696	mg	/Kg dry	1 .	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Fluoranthene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Fluorene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	Ј ΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Naphthalene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЛΚΑ
*Pyrene	U	0.348	mg	/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameter	s								
Percent Solids	84.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID:

CA 52

Lab Order: 18E0511

Lab ID: 18E0511-14

Collection Date:	5/17/18 13:30						Matrix: So	lid		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compou	nds by GC-MS									
*Benzene		0.0440	0.00447	1	mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Ethylbenzene		0.160	0.00447	1	mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	ЛКK
*Methyl tert-butyl ether		0.0405	0.00447	1	mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Toluene	0	.00510	0.00447	1	mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Xylenes (total)		0.136	0.0134	i	mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
Semi-Volatile Organic Co	mpounds by GC-MS	8								
*Acenaphthene	•	U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Acenaphthylene		U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Anthracene		U	0.337	•	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.337	ı	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(b)fluoranthene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(k)fluoranthene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(g,h,i)perylene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(a)pyrene		U	0.0675	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Chrysene	•	U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Dibenz(a,h)anthracene		U	0.0675	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Fluoranthene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
•Fluorene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Naphthalene		U	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Phenanthrene		υ	0.337	. 1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Pyrene		υ	0.337	1	mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	ЛΚΑ
Conventional Chemistry	Parameters									
Percent Solids		84.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Client Sample ID:

CA 53

Lab ID: 18E0511-15

Collection Date:

5/17/18 14:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Go	C-MS							
*Benzene	0.00428	0.00406	mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Ethylbenzene	0.00724	0.00406	mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	U	0.00406	mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Toluene	0.00817	0.00406	mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Xylenes (total)	U	0.0122	mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds	by GC-MS							
*Acenaphthene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JКА
*Acenaphthylene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	Љ Α
*Anthracene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	υ	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ΤΚΑ
*Benzo(g,h,i)perylene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JКА
*Benzo(a)pyrene	U	0.0621	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ЈΚΑ
*Chrysene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0621	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Fluoranthene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ЈΚΑ
*Fluorene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Naphthalene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ЈΚΑ
*Pyrene	U	0.310	mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	ΙΚΑ
Conventional Chemistry Parameter	·s					•		
Percent Solids	90.5	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

	LABORATORY	RESULTS
ent:	Chase Environmental	1.10 A
oject:	F0908004P.F Parkers: Clayton, IL	Lab Order: 18E0511
	Notes and Definit	tions
	Spike recovery outside acceptance limits.	
	RPD outside acceptance limits.	
Ī	Reporting limit set between LOQ and MDL.	·
	Matrix interference.	
1	Analyte result confirmed by second analysis.	
	NELAC certified compound.	
	Analyte not detected (i.e. less than RL or MDL).	

Chain of Custody Record

Scennal II, - (210 Capital Argent Drive - Spangiela, II (62707/9480 - Phone (217) 753-1148 - Pacsimile (217) 753-1152 Charge II. Office - 911a Violana Rol. Sto. 112 - Lake in the 166. it. \$0156 - Phone (647) 551-2654 - Paca inde (547) 458-5689 Control / Southern IC Contact - Phone (217) 414-7752 - Facesmile (217) 753-1152



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Chain of Custody Record

Contral IL - 1210 Capital Aspert Dave - Springhold, IL 62707-8490 - Phone (217) 753-1145 - Passimile (217) 753-1152 Chicago IL Citice - 9314 Vegena Rd., Ste 113 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 455-9580 Central / Southern II. Contact - Plying (217) 414-7762 - Respirate (217) 753-1150



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Page 2 of 2

Revision 4 February 20, 2017



PDC Laboratories, Inc.

Tuesday, May 29, 2018

Matt Rives

Chase Environmental 2701 E Ash Springfield, IL 62704

TEL: (217) 670-1916 FAX: (217) 670-1682

RE: F0908004P.F Parkers: Clayton, IL

PDC WO: 18E0510

PDC Laboratories, Inc. received 12 sample(s) on 5/21/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Kristen A. Potter

Project Manager

Certifications:

NELAP/NELAC - IL #100323

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID:

Collection Date:

CA 34

5/14/18 10:00

Lab Order: 18E0510

Lab ID: 18E0510-01

••••••••••••••••••••••••••••••••••••••						-			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by	GC-MS								
*Benzene	0.212	0.135		mg/Kg dry	25	5/25/18 12:35	5/25/18 16:11	SW8260B R2	ЛКК
*Ethylbenzene	0.0109	0.00459		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	ЛКК
*Methyl tert-butyl ether	0.225	0.00460		mg/Kg dry	1	5/24/18 9:00	5/25/18 0:04	SW8260B R2	ЈКК
*Toluene	0.118	0.00459		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	ЛКК
*Xylenes (total)	0.0455	0.0138		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	ЛКК
Semi-Volatile Organic Compound	ls by GC-MS								
*Acenaphthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Anthracene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	Ј ΚΑ
*Benzo(a)anthracene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ΤΚΑ
*Benzo(b)fluoranthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0756		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЈК А
*Chrysene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	Ј ΚΑ
*Dibenz(a,h)anthracene	U	0.0756		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Fluoranthene	U	0.378		mg/Kg dry	ì	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЛΚΑ
*Fluorene	. U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЈКА
*Indeno(1,2,3-cd)pyrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
•Naphthalene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЛΚΑ
*Phenanthrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Pyrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	ЈΚΑ
Conventional Chemistry Paramete	ers		•						
Percent Solids	79.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID:

CA 35

Collection Date: 5/14/18 13:30 Lab Order: 18E0510

Lab ID: 18E0510-02

0 0 U 0 12 0 11 0 U 0	157 157 157 157 157 470	mg/Kg d mg/Kg d mg/Kg d mg/Kg d mg/Kg d	ry 25 ry 25 ry 25	5/24/18 9:00 5/24/18 9:00 5/24/18 9:00 5/24/18 9:00 5/24/18 9:00 5/24/18 9:00	5/24/18 20:28 5/24/18 20:28 5/24/18 20:28 5/24/18 20:28 5/24/18 20:28	SW8260B R2 SW8260B R2 SW8260B R2 SW8260B R2 SW8260B R2	JKK JKK JKK JKK
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U 0 22 0 1 0 U 0	157 157 157	mg/Kg d mg/Kg d mg/Kg d	ry 25 ry 25 ry 25	5/24/18 9:00 5/24/18 9:00 5/24/18 9:00	5/24/18 20:28 5/24/18 20:28 5/24/18 20:28	SW8260B R2 SW8260B R2	ЛКК ЈКК
12 0 11 0 U 0	157 157	mg/Kg d mg/Kg d	y 25 y 25	5/24/18 9:00 5/24/18 9:00	5/24/18 20:28 5/24/18 20:28	SW8260B R2	ЈКК
i 0 U 0	157	mg/Kg d	y 25	5/24/18 9:00	5/24/18 20:28		
U 0			-			SW8260B R2	JKK
	470	mg/Kg d	y 25	5/24/18 9:00	E/04/10 00:00		
					5/24/18 20:28	SW8260B R2	ЈКК
U 0	369	mg/Kg d	y I	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JКА
U 0	369	mg/Kg d	y I	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
U 0	369	mg/Kg d	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
U 0	369	mg/Kg d	y I	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
U 0	369	mg/Kg d	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЈΚΑ
U 0	369	mg/Kg di		5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЛΚΑ
U 0	369	mg/Kg di	y l	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
U 0.0	738	mg/Kg di	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЈΚΑ
<u>.</u> 0 ن	369	mg/Kg di	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
U . 0.0	738	mg/Kg di		5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЈΚΑ
J 0.	369	. mg/Kg di	y I	5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЛΚΑ
J . 0.	369	mg/Kg di	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
J 0.	369	. mg/Kg di	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	ЈΚΑ
J 0.	369	mg/Kg di	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
.0 ل	369	mg/Kg dı	y I	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
.0 ر	369	mg/Kg dr	y 1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
3 0.	100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS
	U 0.: U 0.: U 0.:	U 0.369 U 0.369 U 0.369	U 0.369 mg/Kg dr U 0.369 mg/Kg dr U 0.369 mg/Kg dr	U 0.369 mg/Kg dry 1 U 0.369 mg/Kg dry 1 U 0.369 mg/Kg dry 1	U 0.369 mg/Kg dry 1 5/22/18 15:45 U 0.369 mg/Kg dry 1 5/22/18 15:45 U 0.369 mg/Kg dry 1 5/22/18 15:45 U 0.369 mg/Kg dry 1 5/22/18 15:45	U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59 U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59 U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59	U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59 SW8270C R3 U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59 SW8270C R3 U 0.369 mg/Kg dry 1 5/22/18 15:45 5/23/18 16:59 SW8270C R3

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID:

F0908004P.F Parkers: Clayton, IL

CA 36

Lab Order: 18E0510

Lab ID: 18E0510-03

Collection Date:	5/14/18 13:50					Matrix: So	lid		
Analyses	ا	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analys
Volatile Organic Compou	inds by GC-MS				<u> </u>				
*Benzene	-	0.107	0.00466	mg/Kg dry	1	5/24/18 9:00	5/24/18 22:16	SW8260B R2	ЈКК
*Ethylbenzene	0.0	0810	0.00467	mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	JKK
*Methyl tert-butyl ether		0.212	0.00466	mg/Kg dry	1	5/24/18 9:00	5/24/18 22:16	SW8260B R2	JKK
*Toluene	(0.100	0.00467	mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	JKK
*Xylenes (total)	0.	.0322	0.0140	mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	ЈКК
Semi-Volatile Organic Co	ompounds by GC-MS						•		
*Acenaphthene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	ЈΚΑ
*Acenaphthylene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Anthracene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(a)anthracene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(b)fluoranthene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	ЈΚΑ
*Benzo(k)fluoranthene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(g,h,i)perylene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(a)pyrene		U	0.0704	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Chrysene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Dibenz(a,h)anthracene		U	0.0704	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	ЈКА
*Fluoranthene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Fluorene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene		U	0.352	' mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Naphthalene		υ	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	ЈΚΑ
*Phenanthrene		U	0.352	mg/Kg dry	i	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Pyrene		U	0.352	mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
Conventional Chemistry I	Parameters								
Percent Solids		79.3	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Project:

Lab ID: 18E0510-04

Client Sample ID:

CA 37

Collection	Date:	5/15/18	10:30	

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by G	C-MS								
*Benzene	0.0854	0.0193	J, M	mg/Kg dry	25	5/29/18 8:00	5/29/18 13:11	SW8260B R2	ЛКК
*Ethylbenzene	0.0354	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
*Toluene	0.00650	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	ЛКК
*Xylenes (total)	0.156	0.0167		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.382		mg/Kg dry	1 .	5/22/18 15:45	5/23/18 18:32	SW8270C R3	ЈКА
*Acenaphthylene	υ	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Anthracene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JКА
*Benzo(k)fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U.	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	Ј ΚΑ
*Benzo(a)pyrene	U	0.0764		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Chrysene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0764		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Fluorene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Naphthalene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Phenanthrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Pyrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameter	rs								
Percent Solids	78.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Client Sample ID:

CA 38

Lab ID: 18E0510-05

Date: 5/29/2018

Collection Date:

5/15/18 11:30

Analyses	Result	Limit	Quat	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-N	4S								
*Benzene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	ЛΚК
*Ethylbenzene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	ЛΚК
*Methyl tert-butyl ether	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Toluene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Xylenes (total)	U	0.0154		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds by	GC-MS								
*Acenaphthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Acenaphthylene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Anthracene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(a)anthracene	U	. 0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	Ü	0.364		mg/Kg dry	ı	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЈΚΑ
*Benzo(g,h,i)perylene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	Ü	0.0727		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЈΚΑ
*Chrysene	ប	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	Љ А
*Dibenz(a,h)anthracene	υ	0.0727		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЈКА
*Fluoranthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Fluorene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	ЛΚΑ
*Naphthalene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Phenanthrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	Љ А
*Pyrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.4	0.100		%	l	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

Client Sample ID: **Collection Date:**

CA 54

5/18/18 10:00

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Lab ID: 18E0510-06

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS							
*Benzene	U	0.00570	mg/Kg dry	ı	5/22/18 11:00	5/23/18 0:18	SW8260B R2	ЈКК
*Ethylbenzene	U	0.00570	mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	ЈКК
*Methyl tert-butyl ether	U	0.00570	mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	ЛКК
*Toluene	U	0.00570	mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
*Xylenes (total)	Ų	0.0171	mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	ЈКК
Semi-Volatile Organic Compounds b	y GC-MS							
*Acenaphthene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Acenaphthylene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Anthracene	U	0.372	mg/Kg dry	1	· 5/22/18 15:45	5/23/18 22:37	SW8270C R3	ЛΚΑ
*Benzo(a)anthracene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(b)fluoranthene	. U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	ЈКА
*Benzo(g,h,i)perylene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0745	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JКА
*Chrysene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0745	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	ЈΚΑ
*Fluoranthene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Fluorene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JΚA
*Indeno(1,2,3-cd)pyrene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Naphthalene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JКА
*Phenanthrene	U	0.372	mg/Kg dry	i	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Pyrene	U	0.372	mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
Conventional Chemistry Parameters								
Percent Solids	80.3	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Conventional Chemistry Parameters

Percent Solids

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

89.7

0.100

Client Sample ID:

CA 55

Lab Order: 18E0510

Lab ID: 18E0510-07

5/24/18 10:04

5/25/18 10:02

Collection Date:	5/18/18 11:00	Matrix: Solid												
Analyses		Result	Limit	Qual Unit	s DF	Date Prepared	Date Analyzed	Method	Analyst					
Volatile Organic Compo	ands by GC-MS													
*Benzene		U	0.00452	mg/Kg	iry I	5/25/18 12:35	5/25/18 22:01	SW8260B R2	ЛКК					
*Ethylbenzene		U	0.00452	mg/Kg	lry i	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JKK					
*Methyl tert-butyl ether		U	0.00452	mg/Kg	lry 1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JKK					
*Toluene		U	0.00452	mg/Kg	lry I	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JKK					
*Xylenes (total)		U	0.0136	mg/Kg o	lry i	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JKK					
Semi-Volatile Organic Co	ompounds by GC-M	1S												
*Acenaphthene	•	U	0.329	mg/Kg o	lry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Acenaphthylene		U	0.329	mg/Kg o	lry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈКА					
*Anthracene		U	0.329	mg/Kg o	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					
*Benzo(a)anthracene		U	0.329	mg/Kg o	iry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					
Benzo(b)fluoranthene		U	0.329	mg/Kg o	iry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					
*Benzo(k)fluoranthene		U	0.329	mg/Kg o	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Benzo(g,h,i)perylene		U	0.329	mg/Kg c	ry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Benzo(a)pyrene		U	0.0658	mg/Kg d	ry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JКА					
*Chrysene		Ü	0.329	mg/Kg d	ry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Dibenz(a,h)anthracene		U	0.0658	mg/Kg d	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					
*Fluoranthene		U	0.329	mg/Kg d	ry 1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Fluorene		U	0.329	mg/Kg d	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	Љ А					
*Indeno(1,2,3-cd)pyrene	•	U	0.329	mg/Kg d	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Naphthalene		U	0.329	mg/Kg d	ry l	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					
*Phenanthrene		U	0.329	mg/Kg d	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA					
*Pyrene		U	0.329	. mg/Kg d	ry I	5/22/18 15:45	5/23/18 23:08	SW8270C R3	ЈΚΑ					

%

ASTM D2974 DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

CA 56

Lab ID: 18E0510-08

Client Sample ID:

Collection Date: 5/18/18 11:45

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method '	Analyst
Volatile Organic Compounds by G	C-MS								
*Benzene	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Ethylbenzene	U .	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Toluene	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Xylenes (total)	U	0.0155		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds	by GC-MS								
*Acenaphthene	U	0.331	•	mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	ЈΚΑ
*Acenaphthylene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	ЈΚΑ
*Anthracene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(a)anthracene	ប	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	Љ А
*Benzo(a)pyrene	U	0.0661		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Chrysene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0661		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	ЈКА
*Fluorene	. U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Naphthalene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Phenanthrene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Рутепе	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
Conventional Chemistry Paramete	rs								
Percent Solids	88.0	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Client Sample ID:

CA 57

Lab ID: 18E0510-09

Collection Date: 5/18/18 12:15

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS	8								
*Benzene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Ethylbenzene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	Ж
*Methyl tert-butyl ether	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Toluene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	ЖK
*Xylenes (total)	U	0.0138	:	mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
Semi-Volatile Organic Compounds by G	C-MS								
*Acenaphthene	U	0.332	:	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Acenaphthylene	υ	0.332	•	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Anthracene	U	0.332	1	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.332	1	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.332	1	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKА
*Benzo(k)fluoranthene	U	0.332	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.332	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	ЈКА
*Benzo(a)pyrene	U	0.0663	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	ЈΚΑ
*Chrysene	U	0.332	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0663	,	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKΑ
*Fluoranthene	υ	0.332	1	ng/Kg dry	1	5/22/18 15:45 .	5/24/18 0:09	SW8270C R3	Ј ΚΑ
*Fluorene	. ប	0.332	ı	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.332	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Naphthalene	U	0.332	ı	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JКА
*Phenanthrene	υ.	0.332	τ	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Pyrene	U	0.332	1	ng/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
Conventional Chemistry Parameters	•								
Percent Solids	87.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Client Sample ID:

CA 58

Lab ID: 18E0510-10

Collection Date: 5/18/18 12:30

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC	-MS							
*Benzene	U	0.00381	mg/Kg dry	i	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Ethylbenzene	U	0.00381	mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00381	mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	ЛΚК
*Toluene	U	0.00381	mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Xylenes (total)	U	0.0114	mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	ЛКК
Semi-Volatile Organic Compounds b	y GC-MS					•		
*Acenaphthene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Acenaphthylene	υ	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Anthracene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЛΚΑ
*Benzo(k)fluoranthene	υ	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЛΚΑ
*Benzo(g,h,i)perylene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Benzo(a)pyrene	U	0.0676	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Chrysene	U	0.338	mg/Kg dry	1	· 5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЛΚΑ
*Dibenz(a,h)anthracene	U	0.0676	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Fluoranthene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Fluorene	U	0.338	mg/Kg dry	ì	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Naphthalene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	ЈΚΑ
*Phenanthrene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Pyrene	U	0.338	mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
Conventional Chemistry Parameters								
Percent Solids	88.1	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Client Sample ID: **Collection Date:**

CA 59

5/18/18 13:30

Lab Order: 18E0510

Lab ID: 18E0510-11

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analys
Volatile Organic Compounds by GC	-MS							
*Benzene	U	0.00416	mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	ЈКК
*Ethylbenzene	U	0.00416	mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.0250	mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Toluene	U	0.00416	mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Xylenes (total)	U	0.0125	mg/Kg dry	1	. 5/22/18 11:00	5/23/18 1:43	SW8260B R2	ЈКК
Semi-Volatile Organic Compounds b	y GC-MS							
*Acenaphthene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Acenaphthylene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈΚΑ
*Anthracene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈΚΑ
*Benzo(a)anthracene	· U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈΚΑ
*Benzo(b)fluoranthene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	Љ А
*Benzo(k)fluoranthene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0663	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈΚΑ
*Chrysene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JКА
*Dibenz(a,h)anthracene	U	0.0663	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Fluoranthene	Ū	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈКА
*Fluorene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЛΚΑ
*Indeno(1,2,3-cd)pyrene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Naphthalene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Phenanthrene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЈΚΑ
*Pyrene	U	0.332	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	ЛΚΑ
Conventional Chemistry Parameters					•			
Percent Solids	84.4	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client:

Chase Environmental

Project:

F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Client Sample ID:

Lab ID: 18E0510-12

CA 60

Matrix: Solid

Collection Date: 5/18/18 14:00

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by Go	C-MS							
*Benzene	U	0.00474	mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	ЛКК
*Ethylbenzene	ប	0.00474	mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Methyl tert-butyl ether	Ú	0.00474	mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Toluene	U	0.00474	mg/Kg dry	. 1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Xylenes (total)	U	0.0142	mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	ΙΚΚ
Semi-Volatile Organic Compounds	by GC-MS							
*Acenaphthene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈКА
*Acenaphthylene	U ·	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Anthracene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЛКА
*Benzo(a)anthracene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈКА
*Benzo(b)fluoranthene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈКА
*Benzo(k)fluoranthene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЛКА
*Benzo(g,h,i)perylene	U	0.352	mg/Kg dry	i	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0705	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈКА
*Chrysene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈΚΑ
*Dibenz(a,h)anthracene	U	0.0705	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Fluoranthene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈΚΑ
*Fluorene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈΚΑ
*Naphthalene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Phenanthrene	U	0.352	mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
•Рутепе	U	0.352	mg/Kg dry	ŧ	5/22/18 15:45	5/24/18 1:41	SW8270C R3	ЈΚΑ
Conventional Chemistry Parameter	rs							
Percent Solids	80.8	0.100	%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

	LABORATOR	(RESULTS	
Client: Project:	Chase Environmental F0908004P.F Parkers: Clayton, IL	Lab Order: 18E0510	
	Notes and Defin	tions	
S	Spike recovery outside acceptance limits.		
R	RPD outside acceptance limits.		
M	Reporting limit set between LOQ and MDL.		
J	Analyte detected between reporting level and MDL.	•	
*	NELAC certified compound.		
U	Analyte not detected (i.e. less than RL or MDL).		

Chain of Custody Record

Central II. - 1210 Capital Airport Drive - Springfield, III. 62707-8490 - Franco (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Loke in the Hills, IL 60166 - Phone (\$47) 651-2604 - Facsimile (\$47) 458-9680 Control / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



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Page 1 of 2

Revision 4 February 20, 2017

Chain of Custody Record

Central IL - 1216 Capital Azood Drive - Springfield, it. 62707-6480 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago It. Office - 9214 Virginia Rd - Sto 112 - Lake in the Hills. It. 60156 - Phone (247) 651-2604 - Facsimile (847) 458-9680 Central / Southern It. Contact - Phone (217) 414-7762 - Facsimile (217) 753-1157



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Page Z of Z

Revision 4 February 20, 2017



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

Α.		te Identification MA Incident # (6- or 8-digit):	051012	IEPA LPC# (10-digit): 00101050	10e
		te Name: Clayton / Parker's	'''''''''''''''''''''''''''''''''''''		700
		te Address (Not a P.O. Box):			
		ty: Clayton	County: Adams	ZIP Code: 62324	
			County. Adams	ZIF Code. <u>82324</u>	
	Le	aking UST Technical File			•
B.	Sa	mple Collector			
	l c	ertify that:			a M
	1.	Appropriate sampling equip	ment/methods were utilized to ob	tain representative samples.	1/1
	2.	Chain-of-custody procedure	es were followed in the field		. (Initial) VV
				·	(Initial))
	3.	Sample integrity was mainta	ained by proper preservation.		(Initial)
	4.	All samples were properly la	abeled.		me
C.	Lal	boratory Representativ	e		(Initial)
		ertify that:	•		
	1 00	sruly triat.			. 1
	1.	Proper chain-of-custody pro	cedures were followed as docum	ented on the chain-of-custody forms	(lavial)
	2.	Sample integrity was mainta	ined by proper preservation.		K
	3.	All samples were properly la	heled		(Initial)
	Ο.	7 th Samples Were properly in			(Initial)
	4.	Quality assurance/quality co	ntrol procedures were establishe	d and carried out.	/
	5.	Sample holding times were i	not exceeded.		(Initial)

(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name Matthew Rives	Name Kristen Potter
Title Sr. Project Manager	_ Title Pro ManageR
Company Chase Environmental Group, Inc.	Company Prairie Arralytical Systems, Inc. PDC Labs
Address 2701 East Ash Street	Address 1210 Capital Airport Drive
City Springfield	City Springfield
State Illinois	State Illinois
Zip Code 62703	Zip Code 62707
Phone 217-670-1916	Phone 217-753-1148
Signature	Signature Kust Rott
Date 5/71/18	Date

Appendix CManifests of Soil Disposal

- س	PDC	/Area	Compa	nies - Scale	Ticket	Summ	ary for P	eriod: 2	018050	1 thr	2018	0521		
Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO` Acct	Work . Order	Manifest	Commen
		Billing	Informa	tion) · · ·		Y	` ⊀ Servic	e Info	rmatio	1	7	
12-340 CHASE 2701 E SPRINC	ENVIRONME ASH SFIELD IL 62	ENTAL GI 704	ROUP	Tuou spoi		12-340 PARKEI 101 E O CLAYTO	R'S GAS AN	D MORE						
12-340				NON SPCL WASTE TONS	-	BEAIRD	NONTN	36,140		1	12- 340	0		
12-340	05/01/2018	144693	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,660	17.83	TN	12- 340	0		
12-340	05/01/2018	144692	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,180	19.59	TN	12- 340	0		
12-340	05/01/2018	144690	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,600	17.30	TN	12- 340	0		
12-340	05/01/2018	144694	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,720	18.86	TN	12- 340	0		
12-340	05/01/2018	144695	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	30,780	15.39	TN	12- 340	0		
12-340	05/01/2018	144696	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		
12-340	05/01/2018	144697	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	32,780	16.39	TN	12- 340	0		
12-340	05/01/2018	144703	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,120.	18.56	TN	12- 340	0		
2-340	05/01/2018	144704	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	·41,840	20.92	TN	12- 340	0		
2-340	05/01/2018	144706	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,280	17.14	TN	12- 340	0		
2-340	05/01/2018	144708	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,460	20.23	TN	12- 340	0		
2-340	05/01/2018	144711	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,280	17.64	TN	12- 340	o		
2-340	05/01/2018	144713	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,580	18.29	TN	12- 340	0		
2-340	05/01/2018	144714	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,260	19.13	TN	12- 340	0		
2-340	05/01/2018	144716	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,540	17.27	TN	12- 340	0		
2-340	05/01/2018	144724	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,480	19.24	TN	12- 340	0		
2-340	05/01/2018	144727	PK NT	NON SPCL WASTE TONS	١ ٠	BEAIRD	NONTN	36,100	18.05	IN 1	12- 340	0		
2-340	05/01/2018	144729	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,460	16.73	IN I	12- 340	0		
2-340	05/01/2018	144731	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,660	18.33	IN I	12- 340	0		
2-340	05/01/2018	144732	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,040	17.02		12- 340	0		
2-340	05/01/2018	144735	PK NT	NON SPCL WASTE TONS	•	BEAIRD	NONTN	35,100	17.55		12- 340	0		
2-340	05/01/2018	144737	PKNII	NON SPCL WASTE TONS	'	BEAIRD	NONTN	36,480	18.24		12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	μ Description ⇒	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO /	, Work Order	Manifest	Commen
12-340	05/01/2018	i	1	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,160	16.58	1	12- 340	0		
12-340	05/01/2018	144752	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,840	19.92	TN	12- 340	0		
12-340	05/01/2018	144753	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,340	18.67	TN	12- 340	0		
12-340	05/01/2018	144754	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,880	17.94	TN	12- 340	0		
12-340	05/01/2018	144763	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,960	16.98	TN	12- 340	0		
12-340	05/01/2018	144762	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,160	17.58	TN	12- 340	0		
12-340	05/01/2018	144768	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,860	20.43	TN	12- 340	0		
12-340	05/01/2018	144773	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,800	19.40	TN	12- 340	ó		
12-340	05/01/2018	144775	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,480	19.24	TN	12- 340	0		
12-340	05/02/2018	144783	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	34,420	17.21	TN	12- 340	0	•	
12-340	05/02/2018	144784	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,640	16.82	TN	12- 340	0 -		
12-340	05/02/2018	144785	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,960	17.98	TN	12- 340	0		
12-340	05/02/2018	144786	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,640	17.82	TN	12- 340	0		
12-340	05/02/2018	144789	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,520	17.76	TN	12- 340	0		
12-340	05/02/2018	144793	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	45,760	22.88	TN	12- 340	0		
12-340	05/02/2018	144796	PKNI	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,180	19.09	TN	12- 340	0		
12-340	05/02/2018	144798	PKNTI	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,780	17.39	TN	12- 340	0		
12-340	05/02/2018	144803	PKNII	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,960	21.98	IN !	12- 340	0		
12-340	05/02/2018	144804	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	43,200	21.60	IN I	12- 340	0		
12-340	05/02/2018	144806	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,460	22.23	IN I	12- 340	0	,	
12-340	05/02/2018	144808	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,320	18.66	IN	12- 340	0		
12-340	05/02/2018	144810	PK NT 1	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,100	19.55	IN I	12- 340	0		
2-340	05/02/2018	144812	PK NII 1	NON SPCL WASTE TONS		BEAIRD	NONTN	40,600	20.30	1N 1	12- 340	0		RATCLIFF 99
2-340	05/02/2018	144815	PK NII I	NON SPCL WASTE TONS		BEAIRD	NONTN	37,300	18.65	101	12- 340	0		
2-340	05/02/2018	144817	DK NII :	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,940	19,47	IN I	12- 340	0		
2-340	05/02/2018	144820	PKNI	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,060	21.03	IN I	12- 340)		

Scale Acct	Date of	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net j	Quantity	Unit	WO Acct	Work Order	Manifest	Comment)
12-340	05/02/2018	144821	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,720	20.86	TN	12- 340	0		
12-340	05/02/2018	144824	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,380	20.19	TN	12- 340	0		
12-340	05/02/2018	144825	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,280	19.64	TN	12- 340	0		
12-340	05/02/2018	144826	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,860	17.93	TN	12- 340	0		
12-340	05/02/2018	144827	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,480	19.74	TN	12- 340	0		
12-340	05/02/2018	144828	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,600	19.30	TN	12- 340	0		
12-340	05/02/2018	144830	PK NT	NON SPCL WASTE TONS	<u> </u>	BEAIRD	NONTN	40,460	20,23	TN	12- 340	0		
12-340	05/02/2018	144846	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,120	20.06	TN	12- 340	0		
12-340	05/02/2018	144847	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	39,600	19.80	TN	12- 340	0		
12-340	05/02/2018	144850	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,500	18.75	TN	12- 340	0		
12-340	05/02/2018	144852	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,260	18.63	TN	12- 340	0		
12-340	05/02/2018	144853	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,000	20.00	TN	12- 340	0		
12-340	05/02/2018	144857	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,340	20.17	TN	12- 340	0		
12-340	05/02/2018	144858	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12- 340	0		
12-340	05/02/2018	144859	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,740	19.37	TN	12- 340	0		
12-340	05/03/2018	144871	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,380	20.19	TN	12- 340	0		
12-340	05/03/2018	144873	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,020	21.01	TN	12- 340	0		
12-340	05/03/2018	144874	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,820	20.91	TN	12- 340	0		
12-340	05/03/2018	144876	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,720	18.36	TN	12- 340	0		
12-340	05/03/2018	144885	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,180	20.59	TN	12- 340	0		
12-340	05/03/2018	144886	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,560	20.78	IN I	12- 340	0		
12-340	05/03/2018	144888	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,320	19.16	IN I	12- 340	0		
12-340	05/03/2018	144889	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,120	19.56	IN I	12- 340	0		
12-340	05/03/2018	144896	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,560	18.28	IN I	12- 340	0		
12-340	05/03/2018	144897	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,440	19.22	IN I	12- 340	0		
12-340	05/03/2018	144898	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,460	19.23	IN I	12- 340	0		

Scale Acct	Date #	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Net Weight	Quantity	Unit	WO i	Work Order	Manifest	Comment
12-340	05/03/2018	ì	1	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,800	17.90		12- 340	0		
12-340	05/03/2018	144903	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,980	17.99	TN	12- 340	0		
12-340	05/03/2018	144907	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,940	18.97	TN	12- 340	0		
12-340	05/03/2018	144908	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,400	17.70	TN	12- 340	0	,	
12-340	05/03/2018	144909	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,820	19.41	TN	12- 340	0		
12-340	05/03/2018	144917	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,960	18.98	TN	12- 340	0		
12-340	05/03/2018	144919	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,740	17.87	TN	12- 340	0		
12-340	05/03/2018	144920	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,800	19.40	TN	12- 340	0		
12-340	05/03/2018	144922	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,320	18.66	TN	12- 340	0		
12-340	05/03/2018	144943	PK NT	NON SPCL WASTE TONS	l .	BEAIRD	NONTN	40,500	20.25	TN	12- 340	0		,
12-340	05/03/2018	144944	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,720	17.36	TN	12- 340	0 '		
12-340	05/03/2018	144945	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,360	18.68	TN	12- 340	0		
12-340	05/03/2018	144946	PK NT	NON SPCL WASTE TONS	ı.	BEAIRD	NONTN	38,420	19.21	TN	12- 340	0		
12-340	05/04/2018	144960	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,300	19.65	TN	12- 340	0		
12-340	05/04/2018	144961	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	43,620	21.81	TN	12- 340	0	١	
12-340	05/04/2018	144964	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,840	21.42	TN	12- 340	0		
12-340	05/04/2018	144965	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,300	21.15	TN	12- 340	0		
12-340	05/04/2018	144970	PKNII	NON SPCL WASTE TONS	1 .	BEAIRO	NONTN	41,700	20.85	TN	12- 340	0		
12-340	05/04/2018	144971	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,620	20.31	TN	12- 340	0		
12-340	05/04/2018	144973	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,620	19.31	TN	12- 340	0		
12-340	05/04/2018	144976	PKNII	NON SPCL WASTE TONS	·	BEAIRD	NONTN	39,380	19.69	TN	12- 340	0		
12-340	05/04/2018	144979	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	41,620	20.81	TN	12- 340	0		
12-340	05/04/2018	144981	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	38,740	19.37	TN	12- 340	0		·
12-340	05/04/2018	144983	PKNTI	NON SPCL WASTE TONS	<u> </u>	BEAIRD	NONTN	42,680	21.34	TŃ	12- 340	0		
12-340	05/04/2018	144984	PKNTI	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,800	20.40	TN	12- 340	o .		
12-340	05/04/2018	144989	DK NI I	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,860	19.43	TN	12- 340	0	٠	

Scale Acct	Date :	Ticket	⊹Sz/Chg	Description (In/Out	Vehicle	Material	Net 5 Weight	Quantity	Unit		Work (Order	Manifest Manifest	Comment
12-340	05/04/2018	1	Į.	NON SPCL WASTE TONS	l	BEAIRD	NONTN	34,160	17.08	ł .	12- 340	0		
12-340	05/04/2018	144997	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,180	18.09	TN	12- 340	0		
12-340	05/04/2018	145000	PK NT	NON SPCL WASTE TONS	ı	BEAIRD .	NONTN	41,020	20.51	TN	12- 340	0		
12-340	05/04/2018	145002	PK NT	NON SPCL WASTE TONS	· 	BEAIRD	NONTN	36,900	18.45	TN	12- 340	0		
12-340	05/04/2018	145006	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,300	21.15	TN	12- 340	0		
12-340	05/04/2018	145020	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,880	20.44	TN	12- 340	0		
12-340	05/04/2018	145022	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,460	21.23	TN	12- 340	0	•	
12-340	05/04/2018	145024	PK NT	NON SPCL WASTE TONS	ł	BEAIRD	NONTN	39,180	19.59	TN	12- 340	ö	•	
12-340	05/04/2018	145025	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,800	20.90	TN	12- 340	0		
12-340	05/04/2018	145029	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,920	19.96	TN	12- 340	0		•
12-340	05/04/2018	145031	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,580	19.29	TN	12- 340	0		
12-340	05/04/2018	145033	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,020	21.51	TN	12- 340	0		
12-340	05/07/2018	145051	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	42,360 ·	21.18	TN	12- 340	0		
12-340	05/07/2018	145055	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,360	22.18	TN	12- 340	0		
12-340	05/07/2018	145056	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	41,680	20.84	TN	12- 340	0		
12-340	05/07/2018	145060	PK NT	NON SPCL WASTE TONS	Ι.,	BEAIRD	NONTN	42,440	21.22	TN	12- 340	O		
12-340	05/07/2018	145061	PK NT	NON SPCL , WASTE TONS	1	BEAIRD	NONTN	45,660	22.83	TN	12- 340	0		
12-340	05/07/2018	145062	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	45,080	22.54	TN	12- 340	0		
12-340	05/07/2018	145064	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,820	21.91	TN	12- 340	0 .		
12-340	05/07/2018	145066	PK NT	NON SPCL WASTE TONS	ı .	BEAIRD	NONTN	[*] 39,760	19.88	TN	12- 340	0		
12-340	05/07/2018	145070	PK NT	NON SPCL WASTE TONS	١ .	BEAIRD	NONTN	41,360	20.68	TN	12- 340	0		
12-340	05/07/2018	145071	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,960	20.48	TN	12- 340	0		
12-340	05/07/2018	145072	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,120	19.56	TN	12- 340	0 .		
12-340	05/07/2018	145075	PK NT	NON SPCL WASTE TONS		BÉAIRD	NONTN	39,120	19.56	TN	12- 340	0		•
12-340	05/07/2018	145079		NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,420	19.71	TN	12- 340	0		
12-340	05/07/2018	145080	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,140	18.57	101	12- 340	0		

Scale Acct	ಿ Date	Ticket	Sz/Chg	Description 2	In/Out	Vehicle	Material	Net (Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/07/2018	ı	1	NON SPCL WASTE TONS		BEAIRD	NONTN	36,820	18.41	1	12- 340	0		
12-340	05/07/2018	145084	PK NT	NON SPCL WASTE TONS	i	BEAIRD	NONTN	35,360	17.68	TN	12- 340	0		
12-340	05/07/2018	145092	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,700	17.85	TN	12- 340	0		
12-340	05/07/2018	145093	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,800	19.90	TN	12- 340	0		
12-340	05/07/2018	145094	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,860	16.93	TN	12- 340	0		
12-340	05/07/2018	145098	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,160	20.08	TN	12- 340	0		
12-340	05/07/2018	145109	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,780	21.39	TN	12- 340	0		
12-340	05/07/2018	145112	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,900	18.95	TN	12- 340	0		
12-340	05/07/2018	145116	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20.99	TN	12- 340	0		
12-340	05/07/2018	145117	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,260	17,13	TN	12- 340	0		
12-340	05/07/2018	145123	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,820	18.91	TN	12- 340	0		
12-340	05/07/2018	145127	PK NT	NON SPCL WASTE TONS	í	BEAIRD	NONTN	39,120	19.56	TN	12- 340	0		
12-340	05/07/2018	145128	PK NT	NON SPCL WASTE TONS	_	BEAIRD	NONTN	37,740	18.87	TN	12- 340	0		
12-340	05/07/2018	145132	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,300	19.65	TN	12- 340	0		
12-340	05/08/2018	145143	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,660	20.33	TN	12- 340	0		
12-340	05/08/2018	145145	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	37,620	18.81	TN	12- 340	0		
12-340	05/08/2018	145147	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,700	19.85	TN	12- 340	0		
12-340	05/08/2018	145150	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,120	20.06	TN	12- 340	0		
12-340	05/08/2018	145157	PK NT	NON SPCL WASTE TONS	<u> </u>	BEAIRD	NONTN	43,500	21.75	TN	12- 340	0 .		·
12-340	05/08/2018	145158	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,980	20.99	TN	12- 340	0		
12-340	05/08/2018	145160	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,140	20.07	TN	12- 340	0		
12-340	05/08/2018	145162	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,960	20.48	TN	12- 340 ′	0 .		
12-340	05/08/2018	145164	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		
12-340	05/08/2018	145167	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,680	18.84	TN	12- 340	0		
12-340	05/08/2018	145168	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,040	20.52	TN	12- 340	0	•	
12-340	05/08/2018	145169	PK NI I	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,920	20.96	TN	12- 340	0		

'Acct	Date	Ticket	∠ Sz/Chg	Description	In/Out	Vehicle	Material	Weight	Quantity	Unit		Order	Manifest	Commen
12-340	05/08/2018	145176	PK NT	NON SPCL WASTE TONS	l l	BEAIRD	NONTN	50,160	25.08	TN	12- 340	0		
12-340	05/08/2018	145177	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,460	22.23	TN	12- 340	0		
12-340	05/08/2018	145179	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	47,820	23.91	TN	12- 340	0		
12-340	05/08/2018	145182	PK NT	NON SPCL WASTE TONS	l	BEAIRD	NONTN	41,800	20.90	TN	12- 340	0		
12-340	05/08/2018	145187	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	45,780	22.89	TN	12- 340	0		
12-340	05/08/2018	145188	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,180	20.09	TN	12- 340	0		
12-340	05/08/2018	145190	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,760	20.38	TN	12- 340	0		
12-340	05/08/2018	145193	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,200	18.10	TN	12- 340	0		
12-340	05/08/2018	145201	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,280	17.64	TN	12- 340	0		
12-340	05/08/2018	145204	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,400	20.70	TN	12- 340	0		
12-340	05/08/2018	145209	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,140	19.07	ľN	12- 340	0		
12-340	05/08/2018	145212	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,180	21.09	TN	12- 340	0		
12-340	05/08/2018	145221	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,860	17.43	TN	12- 340	0		
12-340	05/08/2018	145222	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,460	18.73	TN	12- 340	0		
12-340	05/08/2018	145226	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,140	19.57	INI	12- 340	0	,	
12-340	05/08/2018	145227	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,360	18.18	IN I	12- 340	0		
12-340	05/09/2018	145239	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,500	17.75	IN I	12- 340	0	-	
2-340	05/09/2018	145241	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,900	19.45	TN I	12- 340	0		
2-340	05/09/2018	145243	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,720	17.86	IN I	12- 340	0		
2-340	05/09/2018	145245	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,080	17.54	1N 1	12- 340	0		
2-340	05/09/2018	145247	PKNT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,540	20.27	IN I	12- 340	0		
2-340	05/09/2018	145248	PKNI	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,180	17.59	IN I	12- 340	0		
2-340	05/09/2018	145250	PK NII I	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,480	19.24	IN I	12- 340	0		
2-340	05/09/2018	145251	PK NI I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,340	17.67	IN I	12- 340	0		
2-340	05/09/2018	145260	PK NT I	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,040	20.02	IN 1	12- 340	0		
2-340	05/09/2018	145263	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,760	20.38	IN I	12-	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	∠ Net Weight	Quantity	Unit	WO.	Work Order	Manifest	Comment
12-340	05/09/2018	145264	1 .	NON SPCL WASTE TONS	l L	BEAIRD	NONTN	40,100	20.05	i .	12- 340	0		
12-340	05/09/2018	145267	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,420	20.21	TN	12- 340	0		
12-340	05/09/2018	145269	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,740	21.37	TN	12- 340	0		
12-340	05/09/2018	145271	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,220	18,11	TN	12- 340	0		
12-340	05/09/2018	145272	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,820	21.41	TN	12- 340	0		
12-340	05/09/2018	145273	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,220	17.11	TN	12- 340	0		-
12-340	05/09/2018	145283	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	28,880	14.44	TN	12- 340	0		
12-340	05/09/2018	145288	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,920	18.46	TN	12- 340	0		
12-340	05/09/2018	145291	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,660	18.33	TN	12- 340	0		
12-340	05/09/2018	145292	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,100	17.05	TN	12- 340	0		
12-340	05/09/2018	145294	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,680	17.84	TN	12- 340	0		
12-340	05/09/2018	145297	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,480	21.24	TN	12- 340	0		
12-340	05/09/2018	145300	PK NT	NON SPCL WASTE TONS	,	BEAIRD	NONTN	33,200	16.60	TN	12- 340	0		
12-340	05/09/2018	145305	PK NT	NON SPCL WASTE TONS	,	BEAIRD	NONTN	42,360	21.18	TN	12- 340	0		
12-340	05/09/2018	145312	PK NŤ	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,560	20.28	TN	12- 340	0		
12-340	05/09/2018	145318	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,900	18.45	TN	12- 340	0		
12-340	05/09/2018	145319	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN .	40,260	20.13	TN	12- 340	0		
12-340	05/09/2018	145317	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,880	18.94	TN	12- 340	0		
12-340	05/09/2018	145322	PK NT	NON SPCL WASTE TONS	,	BEAIRD	NONTN	39,320	19.66	TN	12- 340	0		
12-340	05/09/2018	145326	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,320	20.16	TN	12- ´ 340	0		
12-340	05/09/2018	145328	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,020	18.51	TN	12- 340	0		
12-340	05/09/2018	145331	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,160	22.08	TN	12- 340	0		•
12-340	05/10/2018	145338		NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,800	20.90	TN	12- 340	0		
12-340	05/10/2018	145340	PKNT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,880	20.94	TN	12- 340	0		
2-340	05/10/2018	145337	DK NII I	NON SPCL WASTE TONS	,	BEAIRD	NONTN	41,780	20.89	TN	12-	0		
12-340	05/10/2018	145343	DK NT	NON SPCL WASTE TONS	 	BEAIRD	NONTN	44,420	22.21	TN	12.	0		

Scale	Date	打公会 Ticket	Sz/Chg	Description	In/Out) Vehicle	Material	Net	Quantity	Unit	wo	Work	Manifest	Comment
ACCI		B. Tille	933	NON SPCL	2375	3300	PAPAT	Weight	CTUSA:	143.8	Acct	Order	1.24	PARACON.
12-340	05/10/2018	145347	PK NT	WASTE TONS		BEAIRD	NONTN	45,440	22.72	TN	12- 340	0		
12-340	05/10/2018	145348	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	49,920	24.96	TN	12- 340	0		
12-340	05/10/2018	145349	PĶ NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,200	20.10	TN	12- 340	0		
12-340	05/10/2018	145350	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,860	22.43	TN	12- 340	0		
12-340	05/10/2018	145359	PK NT	NON SPCL WASTE TONS	_	BEAIRD	NONTN	41,540	20.77	TN	12- 340	o		
12-340	05/10/2018	145361	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,760	20.88	TN	12- 340	0		
12-340	05/10/2018	145363	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,060	19.03	TN	12- 340	0		
12-340	05/10/2018	145368	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,220	20.11	TN	12- 340	0		
.12-340	05/10/2018	145371	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,240	20.12	TN	12- 340	0		,
12-340	05/10/2018	145373	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,380	19,19	TN	12- 340	0		· · · · · · · · · · · · · · · · · · ·
12-340	05/10/2018	145374	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,620	19.81	TN .	12- 340	0		
12-340	05/10/2018	145375	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,780	20.89	TN	12- 340	0		
12-340	05/10/2018	145381	PK NT	NON SPCL WASTE TONS	ŀ	BEAIRD	NONTN	35,960	17.98	TN	12- 340	0		•
12-340	05/10/2018	145383	PK NT	NON SPCL WASTE TONS	i	BEAIRD	NONTN	41,660	20.83	TN	12- 340	0		
12-340	05/10/2018	145386	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,260	20.13	TN	12- 340	0		
12-340	05/10/2018	145388	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,200	17.60	TN	12- 340	0		
12-340	05/10/2018	145394	PK NT	NON SPCL WASTE TONS	1	8EAIRD	NONTN	39,560	19.78	TN	12- 340	0		
12-340	05/10/2018	145396	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	36,300	18.15	TN	12- 340	0		
12-340	05/10/2018	145401	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,820	20.91	TN	12- 340	0	•	
12-340	05/10/2018	145403	PK NII I	NON SPCL WASTE TONS		BEAIRD	NONTN	44,640	22.32	TN	12- 340	0		
12-340	05/10/2018	145414	DK NIT (NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,840	17.42	TN	12- 340	0		
12-340	05/10/2018	145416	PK NII I	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,400	19.20	IN i	12- 340	0		
12-340	05/10/2018	145421	PKNII	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	IN !	12- 340	0		
12-340	05/10/2018	145422	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,200	20.60	IN I	12- 340	0		
12-340	05/10/2018	145424		NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,820	18.41	1N I	12- 340	0		
12-340	05/10/2018	145427	PK NII I	NON SPCL WASTE TONS		BEAIRD	понти	34,300	17.15	IN I	12- 340	0		

Scale Acct	Date .	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material		Quantity	Unit	WO, Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145428	1	NON SPCL WASTE TONS	<u> </u>	BEAIRD	NONTN	36,960	18.48		12- 340	0	,	
12-340	05/11/2018	145439	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,940	22.47	TN	12- 340	0		٠
12-340	05/11/2018	145440	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	47,180	23.59	TN	12- 340	О.		•
12-340	05/11/2018	145442	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	47,840	23.92	TN	12- 340	0		
12-340	05/11/2018	145444	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	48,940	24.47	TN	12- 340	0		
12-340	05/11/2018	145446	PK NT	NON SPCL WASTE TONS	I .	BEAIRD	NONTN	40,620	20.31	TN	12- 340	0		
12-340	05/11/2018	145447	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,660	20.83	TN	12- 340	0		
12-340	05/11/2018	145449	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,460	21.23	TN	12- 340	0		
12-340	05/11/2018	145451	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,060	22.03	TN	12- 340	0		
12-340	05/11/2018	145455	PK NT	NON SPCL WASTE TONS	I .	BEAIRD.	NONTN	37,720	18.86	TN	12- 340	0		
12-340	05/11/2018	145457	PK NT	NON SPCL WASTE TONS	ŀ	BEAIRD	NONTN	38,160	19.08	TN	12- 340	oʻ		
12-340	05/11/2018	145458	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	39,380	19.69	TN	12- 340	0		•
12-340	05/11/2018	145464	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,840	20.92	TN	12- 340	0		
12-340	05/11/2018	145466	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,240	19.12	TN	12- 340	0		
12-340	05/11/2018	145469	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,000	21.00	TN	12- 340	0		
12-340	05/11/2018	145470	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,520	19.76	TN	12- 340	0	,	
12-340	05/11/2018	145478	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,480	19.24	TN.	12- 340	0		
12-340	05/11/2018	145480	PK NT 1	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,360	17.68	IN I	12- 340	ο.		•
12-340	05/11/2018	145481	ו ומאט	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,200	17.10	IN I	12- 340	0		
12-340	05/11/2018	145492	PK NI 1	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,740	19.87	IN 1	12- 340	0		
12-340	05/11/2018	145493	PK NI I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,120	19.06	IN I	12- 340	0		
12-340	05/11/2018	145501	PKNII	NON SPCL WASTE TONS	1 '	BEAIRD	нонти	38,740	19.37	101	12- 340	0		
, 12-340	05/11/2018	145499	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,720	17.36	IN I	12- 340	0		
12-340	05/14/2018	145525	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,280	18.64	IN I	12- 340	0		
12-340	05/14/2018	145528	PK NT 1	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,120	18.56	IN I	12- 340	0		
2-340	05/14/2018	145536	PKNI	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,140	18.57	IN I	12- 340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	, Net (; Weight	Quantity	Unit	WO.	Work Order	Manifest	Comment
12-340	05/14/2018	1		NON SPCL WASTE TONS	_	BEAIRD	NONTN	39,800	19.90		12- 340	0		
12-340	05/14/2018	145549	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	42,920	21.46	TN	12- 340	0		
12-340	05/14/2018	145553	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	иоити	37,480	18.74	TN	12- 340	0		
12-340	05/14/2018	145554	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,260	21.13	TN	12- 340	0		
12-340	05/14/2018	145555	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,560	21.78	TN	12- 340	o		
12-340	05/14/2018	145556	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,120	22.06	TN	12- 340	0		
12-340	05/14/2018	145570	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,100	18.55	TN	12- 340	0		
12-340	05/14/2018	145573	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,680	19.84	TN	12- 340	0		
12-340	05/14/2018	145574	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,180	17.09	TN	12- 340	0		
12-340	05/14/2018	145576	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,620	18.81	TN	12- 340	0		
12-340	05/14/2018	145581	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,200	19.10	TN	12- 340	0		
12-340	05/14/2018	145582	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,380	16.69	TN	12- 340	0		
12-340	05/14/2018	145585	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,820	16.91	TN	12- 340	0		
12-340	05/14/2018	145591	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,560	18.78	TN ·	12- 340	0		
12-340	05/14/2018	145592	PK NT	NON SPCL WASTE TONS	١,	BEAIRD	NONTN	38,600	19.30	TN	12- 340	0		
12-340	05/14/2018	145608	PK NT	NON SPCL WASTE TONS	'	BEAIRD	NONTN	34,440	17.22	TN	12- 340	0		
12-340	05/14/2018	145613	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,280	18.64	TN	12- 340	0		
12-340	05/14/2018	145614	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,620	17.31	IN I	12- 340	0		•
12-340	05/14/2018	145616	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,040	17.52	TN	12- 340	0		
12-340	05/14/2018	145623	PK NT	NON SPCL WASTE TONS	!	BEAIRD	NONTN	38,540	19.27	TN	12- 340	0		
12-340	05/14/2018	145625	PKNII	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,660	17.33	IN I	12- 340	0		
12-340	05/14/2018	145626	PKNII	NON SPCL WASTE TONS	'	BEAIRD	NONTN	31,820	15.91	TN	12- 340	0		
12-340	05/14/2018	145640	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,440	17.72	IN I	12- 340	0		
12-340	05/14/2018	145643	PK NI I	NON SPCL WASTE TONS		BEAIRD	NONTN	36,900	18.45	IN I	12- 340	0		
12-340	05/14/2018	145650	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,580	16.79	IN I	12- 340	0		
12-340	05/14/2018	145660		NON SPCL WASTE TONS	ı	BEAIRD	NONTN	29,700	14.85	IN I	12- ' 340	0		

Scale	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO #	Work Order	Manifest	Comment
12-340	05/14/2018			NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,540	18.27		12- 340	0		
12-340	05/14/2018	145669	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,360	21.18	TN	12- 340	0		
12-340	05/14/2018	145673	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	43,500	21.75	TN	12- 340	0		
12-340	05/14/2018	145674	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,720	19.36	TN	12- 340	0 ·		
12-340	05/14/2018	145676	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,980	18.99	TN	12- 340	0		
12-340	05/15/2018	145684	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,260	18.63	TN	12- 340	0		
12-340	05/15/2018	145689	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,120	18.56	TN	12- 340	0		
12-340	05/15/2018	145692	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,580	20.79	TN	12- 340	0		
12-340	05/15/2018	145697	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,720	19.86	TN	12- 340	0		
12-340	05/15/2018	145702	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,660	. 20.83	TN	12- 340	0		
12-340	05/15/2018	145705	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,580	20.29	TN	12- 340	0		
12-340	05/15/2018	145706	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,940	19.47	TN	12- 340	0		
12-340	05/15/2018	145707	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,620	17.81	TN	12- 340	0		
12-340	05/15/2018	145717	PK NT	NON SPCL WASTE TONS	1	BEAIRD	ио́ити	35,780	17.89	TN	12- 340	0		:
12-340	05/15/2018	145720	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,840	18.92	TN	12- 340	0		
12-340	05/15/2018	145722	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,400	20.20	TN	12- 340	0		
12-340	05/15/2018	145724	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,560	19.28	TN	12- 340	0		
12-340	05/15/2018	145730	PKNII	NON SPCL WASTE TONS	,	BEAIRD	NONTN	38,120	19.06	IN I	12- 340	0		
12-340	05/15/2018	145734	PK AII I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,340	20.17	TN	12- 340	0		
12-340	05/15/2018	145733	PK NII I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	33,560	16.78	IN I	12- 340	0		
12-340	05/15/2018	145739	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,580	17.79	IN I	12- 340	0 '		
12-340	05/15/2018	145754	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,760	18.88	IN I	12- 340	0		
12-340	05/15/2018	145755	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,380	19.19	IN !	12- 340	0		
12-340	05/15/2018	145756	PK NII I	NON SPCL WASTE TONS	'	BEAIRD	NONTN	39,480	19.74	IN I	12- 340	0		
12-340	05/15/2018	145757	PK NII I	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,320	20.66	IN 1	12- 340	0		
12-340	05/15/2018	145763	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	42,320	21.16	IN I	12- 340	0		

Scale Acct	Date /	Ticket	Sz/Chg	(V Description	In/Out	Vehicle	Material	Net . Weight	Quantity	Unit	WO Acct	Work	Manifest	Comment
12-340	05/15/2018	145765	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,920	18.96	1 .	12- 340	0		
12-340	05/15/2018	145774	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,360	18.18	TN	12- 340	0		
12-340	05/15/2018	145780	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,680	18.84	TN	12- 340	0		
12-340	05/15/2018	145799	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,940	19.97	TN	12- 340	0		
12-340	05/15/2018	145801	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,900	19.95	TN	.12- 340	0		
12-340	05/15/2018	145804	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,500	18.25	TN	12- 340 .	0		
12-340	05/15/2018	145805	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,680	19.84	TN	12- 340	0		
12-340	05/15/2018	145807	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,740	18.87	TN	12- 340	0		
12-340	05/15/2018	145808	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	34,520	17.26	TN	12- 340	ο ,		
12-340	05/15/2018	145813	PK NT	NON SPCL WASTE TONS	1,	BEAIRD	NONTN	39,440	19.72	TN	12- 340	0		
12-340	05/16/2018	145826	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,120	19,06	TN	12- _. 340	0		
12-340	05/16/2018	145829	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		
12-340	05/16/2018	145832	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,360	19.68	TN	12- 340	0		•
12-340	05/16/2018	145834	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,960	20.48	TN	12- 340	0 .		
12-340	05/16/2018	145835	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,640	. 19.32	TN	12- 340	0		•
12-340	05/16/2018	145837	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	42,780	21.39	TN	12- 340	0		
12-340	05/16/2018	145838	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	46,060	23.03	TN	12- 340	0		
12-340	05/16/2018	145839	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,540	19.77	TN	12- 340	0		
12-340	05/16/2018	145841	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	41,620	20.81	TN	12- 340	0		
12-340	05/16/2018	145853	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,620	22.31	TN	12- 340	0		
12-340	05/16/2018	145854	PK NT	NON SPCL WASTE TONS	!	BEAIRD	NONTN	39,240	19.62	TN	12- 340	0		
12-340	05/16/2018	145857	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	43,300	21.65	TN	12- 340	0		
12-340	05/16/2018	145860	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,200	20.60	TN	12- 340	0		
12-340	05/16/2018	145862	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	42,400	21.20	TN	12- 340	0		
12-340	05/16/2018	145866	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,540	19.77	TN	12- 340	o		
12-340	05/16/2018	145869	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	43,500	21.75	TN	12- 340	0		•

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity		Acct	Work Order	Manifest	Comment
12-340	05/16/2018	145873	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	33,540	16.77	1	12- 340	0		
12-340	05/16/2018	145875	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,220	19.61	TN	12- 340	0		
12-340	05/16/2018	145890	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	44,560	22.28	TN	12- 340	0		
12-340	05/16/2018	145894	PK NT	NON SPCL WASTE TONS	L	BEAIRD	NONTN	37,620	18.81	TN	12- 340	0		
12-340	05/16/2018	145898	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,340	19.17	TN	12- 340	0		
12-340	05/16/2018	145899	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,900	19.45	TN	12- 340	0		
12-340	05/16/2018	145901	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	34,640	17.32	TN	12- 340	0		
12-340	05/16/2018	145910	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,340	18.67	TN	12- 340	o		
12-340	05/16/2018	145911	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,400	20,20	TN	12- 340	o		
12-340	05/16/2018	145913	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18.60	TN	12- 340	0		
12-340	05/16/2018	145918	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,520	19.76	TN	12- 340	0		
12-340	05/16/2018	145943	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	44,060	22.03	TN	12- 340	0		
12-340	05/16/2018	145944	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	35,720	17.86	TN	12- 340	0		
12-340	05/16/2018	145947	PK NT	NON SPCL WASTE TONS	L	BEAIRD	NONTN	38,020	19.01	TN	12- 340	0		
12-340	05/16/2018	145949	PK NT	NON SPCL WASTE TONS	_	BEAIRD	NONTN	33,680	16.84	TN	12- 340	0		
12-340	05/16/2018	145950	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		
12-340	05/16/2018	145954	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,860	19.43	TN	12- 340	0		
12-340	05/16/2018	145957	PK NT	NON SPCL WASTE TONS	1	BEAIRD	понти	40,500	20.25	TN	12- 340	0		
12-340	05/16/2018	145958	PK NT	NON SPCL WASTE TONS	1	BEAIRD	иоити	32,060	16.03	TN	12- 340	0		
12-340	05/16/2018	145959	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	38,500	19.25	TN	12- 340	0		
12-340	05/17/2018	145965	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,640	18.82	TN	12- 340	0		
12-340	05/17/2018	145969	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,080	19.54	TN	12- 340	0		
12-340	05/17/2018	145972	PKNII	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,820	20.41	TN	12- 340	0		
12-340	05/17/2018	145984	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,040	18.52	TN	12- 340	0		,
12-340	05/17/2018	145985	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,420	17.71	TN	12- 340	0		
12-340	05/17/2018	145989	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	38,360	19.18	INI	12- 340	0		

Scale Acct	Date :	Ticket	Sz/Chg	Description	tn/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO.	Work Order	Manifest	Comment
12-340	05/17/2018	145993	1	NON SPCL WASTE TONS		BEAIRD	NONTN	36,280	18.14	1	12- 340	0		
12-340	05/17/2018	145998	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	39,960	19.98	TN	12- 340	0		
12-340	05/17/2018	146001	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,200	18.60	TN	12- 340	0		
12-340	05/17/2018	146002	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,920	18.46	TN	12- 340	o		
12-340	05/17/2018	146008	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,980	18.49	TN	12- 340	0		
12-340	05/17/2018	146010	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	36,040	18.02	TN	12- 340	0		
12-340	05/17/2018	146017	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,700	20.35	TN	12- 340	0		
12-340	05/17/2018	146023	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,120	18.56	TN	12- 340	0		
12-340	05/17/2018	146026	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,500	18.75	TN	12- 340	0		
12-340	05/17/2018	146030	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	40,020	20.01	TN	12- 340	0	• .	
12-340	05/17/2018	146029	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	ионти	39,320	19.66	TN	12- 340	0		•
12-340	05/17/2018	146049	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,820	19.41	TN	12- 340	0		·
12-340	05/17/2018	146051	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,100	18.05	TN	12- 340	0		
12-340	05/17/2018	146055	PK NT	NON SPCL WASTE TONS	1	BEAIRD '	NONTN	42,400	21.20	TN	12- 340	0		
12-340	05/17/2018	146062	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,440	18.22	TN	12- 340	0		
12-340	05/17/2018	146071	PK NT	NON SPCL WASTE TONS	•	BEAIRD	NONTN	38,180	19.09	TN	12- 340	0		
12-340	05/17/2018	146073	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	37,180	18.59	TN	12- 340	0		:
12-340	05/17/2018	146074	PKNII	NON SPCL WASTE TONS	·	BEAIRD	NONTN	39,000	19.50	TN	12- 340	0		
12-340	05/18/2018	146092	PKNTI	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	38,920	19.46	TN	12- 340	0		
12-340	05/18/2018	146094	PKNIII	NON SPCL WASTE TONS	ı	8EAIRD	NONTN	40,180	20.09	TN	12- 340	0		•
12-340	05/18/2018	146099	PK NI I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,720	19.86	TN	12- 340	0		
12-340	05/18/2018	146101	PKNII	NON SPCL WASTE TONS		BEAIRD	NONTN	43,820	21.91	TN	12- 340	0		
12-340	05/18/2018	146112	PKNII	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,180	20.59	IN I	12- 340	0		
12-340	05/18/2018	146115		NON SPCL WASTE TONS	'	BEAIRD	NONTN	38,460	19.23	TN	12- 340	0		
12-340	05/18/2018	146121		NON SPCL WASTE TONS	•	BEAIRD	NONTN	37,000	18.50	IN I	12- 340	0		•
12-340	05/18/2018	146122	PK NII I	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	41,420	20.71	IN I	12- 340	0		

Scale) Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net (§ Weight	Quantity	Unit	WO Acct	Work	Manifest	Comment
12-340	05/18/2018			NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,940	18.47		12- 340	0		
12-340	05/18/2018	146126	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	38,920	19.46	TN	12- 340	0		
12-340	05/18/2018	146127	PK NT	NON SPCL WASTE TONS	1	BEAIRD	NONTN	40,680	20.34	TN	12- 340	0		
12-340	05/18/2018	146130	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	иоити	36,300	18.15	TN	12- 340	0		
12-340	05/18/2018	146142	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	35,580	17.79	TN	12- 340	0		
12-340	05/18/2018	146144	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	36,380	18.19	TN	12- 340	0		
12-340	05/18/2018	146157	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	40,960	20.48	TN	12- 340	0		
12-340	05/18/2018	146159	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12- 340	0		
12-340	05/18/2018	146164	PK NT	NON SPCL WASTE TONS	-	BEAIRD	NONTN	35,700	17.85	TN	12- 340	0		
12-340	05/18/2018	146169	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,700	19.35	TN	12- 340	0		
12-340	05/18/2018	146174	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	37,460	18.73	TN	12- 340	0		
12-340	05/18/2018	146175	PK NT	NON SPCL WASTE TONS	ı	BEAIRD	NONTN	39,880	19.94	TN	12- 340	0		
Fickets:	399 Avg /	Ticket: 19	46)	7.4 · .			3 50 50		7,763.51	19 T. 18.				7

Appendix DScale Tickets of Backfill Materials

Lumley Trucking LLC Electronic Filing: Received, Clerk's Office 10/23/2020 P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch Delivery Information: Product: DirT Gross: 74,500 Contracted Delivery Net: 42.000 **Tons** Rate Tractor Work: 21 Delivery Charge: Tare: 32,500 **Total Amount Due:** Lumley Trucking LLC P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch **Delivery Information:** DIR Product: Gross: Contracted Delivery Net: Tractor Work: //6 Tons Rate 20.75 T

Tare:

Delivery Charge:

Total Amount Due:

Lumley Trucking LL Electronic Filing: Received, Clerk's Office 10/23/2020.

Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Delivery Information:

Product:

Contracted Delivery

Net: 41,800

Tons Rate Tractor Work: Ill

WALL

Tractor Work: Ill

Product:

Tare: 30,500 Delivery Charge: Total Amount Due:

Lumley Trucking LLC

P.O. Box 111

Date: 6-6-18

Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch

Delivery Information: # 209

Gross: 72.600

Product: Dir+
Contracted Delivery

Net: 40.000 Tons Rate Tractor Work:

Tare: 32,500 Delivery Charge: Total Amount Due:

Lumley Trucking LLC Electronic Filing: Received, Date: P.O. Box 111 P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch **Delivery Information:** Product: Dist Gross: 75,000 Contracted Delivery Net: 44, 060 Tons 22 Rate Tractor Work: Tare: 31,000 Delivery Charge: **Total Amount Due:** Date: 6-16-18 **Lumley Trucking LLC** P.O. Box 111 Barry, IL 62312 Fein # 04-3765032 Phone 217-335-2400 Office; or 217-242-1895 Butch **Delivery Information:** Product: 1) 1+ Gross: 73,000 Contracted Delivery Net: 42,000 Tons 2. Tractor Work:

Tare: 31,000

Delivery Charge: Total Amount Due:

26176 487 St. Pittsfield, IL 62363 ILD-OT# 5149204 Electronic Filing: Received, Clerk's Office 10/23/2029 (309) 757-8250 DATE: 🔄 🚿 📰 PRODUCT: TONS (US) POUNDS RATE 504 long (1) **GROSS** 7140 EHICLE: 67221.5ZT TOTAL .O./JOB: _ **ELIVERY INFORMATION:** *7741.72 T **CUSTOMER COPY 2** Florence Quarry CS33 Central Stone Company ------Ticket No: 210297 28176 487 St. Fittsfield, IL 62363 Plant (217) 723-4410 ILDOT# 5149204 Main Office: (309) 757-8250 DATE: 5-14-1/ SUSTOMER: Charle Charle envinonmental PRODUCT: 3 minus TONS (US) POUNDS RATE 504 toas S, Ca AtoN **GROSS** Plustex" IRDER: Chasee ocl **TARE** NET TOTAL .O./JOB: _ ELIVERY INFORMATION: DRIVER'S SIGNATURE CUSTOMER COPY 1 Florence Quarry CS33 Central Stone Company Ticket No: 210298 Plant (217) 723-4410 28178 487 St. Pittsfield, IL 62363 Main Office: (309) 757-8250 ILDOT# 5149204 . DATE: 5-7-12 Chasee chare environmental PRODUCT: TONS (US) RATE soy tens sied plea **GROSS** Plus Ford TARE FEES: _____ 'EHICLE: _ **NET** TOTAL 1.O./JOB: _ ELIVERY INFORMATION: **CUSTOMER COPY 1**

1109/et 190 4 10 290

COCCU VITBULE SUBSTICE

ферналожные формовку

Florence Quarry C533 Central 5to 26478 467 St. Pitterfield II 62363	one Company	,	41	Hoket No: 4 Plant (217)		
26175 487 St. Pittsfield II. 62363	ling: Received,	Clerk	's Office 10/2		5	17
		•		DA	ГЕ: <u></u>	/ 1
USTOMER: Chase en	rireAmental	PROD	UCT:	·	A Comment of the Comm	
			POUNDS	TONS (US)	RATE AN	MOUN'
	0	GROS	S	fins tax		
RDER: Chasee col		TARE		· · · · ·	TAX:	
EHICLE:					FEES:	<u>. </u>
	C.	NET		. ,	TOTAL	: ;
O./JOB:					, AOIAE	63
ELIVERY INFORMATION:	•	the other of		Fi	• . • • •	
		DRIVER	'S SIGNATURE	CUST	OMER COPY 1	
Florence Quarry CS33 Central Stone Com	pany		TICKET NO:	30464889	ORIGINAL	
26176 487th Street Pittsfield, Illinois 62363	Plant: (217) 723-44	10	Date: 5/18/2018			
	Main Office: (309) 757-825	50	Time Out: 07:11	7 	INTERNATION OF THE PROPERTY OF	ı
Customer: CHASEE CHASE ENVIRONMENT	TAL GROUP INC (CS)		Material: CM6SP Desc: 079CM06 IL S	ST BASE		
P O BOX AB CENTRALIA, IL 62801			Billed Units: 19.38			ĺ
(618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB					Tons (US)	
Order. Chroceoz			Gross	72020	36.01 16.63	i
			Tare	33260 38760	19.38	
P.O./Job: Today's Totals: 81.52 Tons (US)	4 Loads		Net	30700		
						, 1
Rate: Carrier: LUMTRK LUMLEY T	RUCKING LLC - CEN			Rate	<u>Amount</u>	
Vehicle: P499087 Driver: LUMLEY 108	Del/Pickup: PickUp					ĺ
Delivery:	Develokup. Fickop		Tax: 122	7.750	Ï	
	· · · · · · · · · · · · · · · · · ·		Fees:			
						l
Driver's signature:	<u> </u>		Rec'd by:			_
	CUS	stomer cop				
	Cu.	storrier cop	, , , , , , , , , , , , , , , , , , ,			
Florence Quarry CS33 Central Stone Com	· · ·			30464886	ORIGINAL	
26176 487th Street Pittsfield, Illinois 62363	Plant: (217) 723-44		Date: 5/18/2018	_		
ILDOT# 5149204 Customer: CHASEE CHASE ENVIRONMENT	Main Office: (309) 757-829	50	Time Out: 07:12	<u></u>	IIII II II II II II II II II II II II II II II	1
P O BOX AB CENTRALIA, IL 62801	TAL GROUP INC (CS)		Desc: 079CM06 IL S	ST BASE		
(618) 533-6740			Billed Units: 20.64		•	
Order: CHASEE002 CLAYTON IL FILL JOB					Tons (US)	
			Gross	72560 31280	36.28 15.64	
			Tare Net	41280	20.64	
P.O./Job: Today's Totals: 20.64 Tons (US)	1 Loads					
Rate: Carrier: LUMTRK LUMLEY T				Rate	Amount	l
Vehicle: P882468 Driver: LUMLEY 116 GR		~		ivare	CHINAIN	l
	Del/Pickup: PickUp					ĺ
			Tax: 122	7.750		
	· · · · · · · · · · · · · · · · · · ·		Fees:			
			L			l
Driver's signature:			Rec'd by:			-

Florence Quarry CS33 Central Stone Company	TICKET NO: 30464887 ORIGINAL
26176 487th Street Pittsfield, Illimis 62363 ILDOT# 5149204 Pittsfield, Illimis 62363 ILDOT# 5149204 Pittsfield, Illimis 62363 Main Office: (309) 757-825	10 lerk's Office 10 23/2020
Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)	Material: CM6SP
P O BOX AB CENTRALIA, IL 62801	I Door OZOCMOS II ST RASE
(618) 533-6740	Billed Units: 20.82 Tons (US)
Order: CHASEE002 CLAYTON IL FILL JOB	
Older. Of Modeless 2	Gross 74480 37.24
	Tare 32840 16.42
P.O./Job: Today's Totals: 41.46 Tons (US) 2 Loads	Net 41640 <u>20.82</u>
Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN	Rate Amount
Vehicle: P980940 Driver: LUMLEY #209	
Delivery: DelPickup: PickUp	
<u>'</u>	Tax: 122 7.750
	Fees:
Driver's signature:	Rec'd by:
•	
Cus	stomer copy 1
Florence Quarry CS33 Central Stone Company	TICKET NO: 30464888 ORIGINAL
26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-44	10 Date: 5/18/2018 ####################################
ILDOT# 5149204 Main Office: (309) 757-825	50 Time Out: 07:16
Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)	Material: CM6SP
P O BOX AB CENTRALIA, IL 62801	Desc: 079CM06 IL ST BASE
(618) 533-6740	Billed Units: 20.68 Tons (US)
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	Tare 32080 16.04
P.O./Job:	Net 41360 <u>20.68</u>
Today's Totals: 62.14 Tons (US) 3 Loads	
Rate: Carrier:	Rate Amount
Rate: Carrier: Vehicle: P980941 Driver: LUMLEY TRUCKING	<u>rate</u>
Delivery: DelPickup: PickUp	
Delivery.	Tax: 122 7.750
	Fees:
	1 665.
Driver's signature:	Rec'd by:
cus	stomer copy 1
Florence Quarry CS33: Central Stone Corrigany	
	Ticket No: 210304
26176 487 St. Pittṣfield, IL 82363, 🚜 🧗 💢 🥳	Plant (217) 723-4410
ILDOT# 5149204	Main Office: (309) 757-8250
	DATE: 5-9-//
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O./JOB:	, IOIAL
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	DRIVER'S SIGNATURE CUSTOMER COPY 1

26176 487 St. Pittsfield_IL 62363 Plant (217) 723-4410 LDOT# 5149204 Electronic Filing: Received, Clerk's Office 10/23/2020 (309) 757-8250 USTOMER: Chase (hase environmenta) PRODUCT: _ POUNDS TONS (US) RATE AMOUNT 399 tens of 500 A ten . **GROSS** Plac Fax IRDER: Chiseecol TAX: __ TARE FEES: _____ **EHICLE:** ______ NET **TOTAL** :O./JOB: ___ **ELIVERY INFORMATION:** DRIVER'S SIGNATURE CUSTOMER COPY 1 Florence Quarry CS33 Central Stone Company Ticket No: 210301 26176 487 St. Pittsfield, IL 62363 🕟 Plant: (217) 723-4410 ILDOT# 5149204 Main Office: (309) 757-8250 DATE: 5-15-16 :USTOMER: Charge Charge paramental PRODUCT: _ TONS (US) RATE POUNDS **AMOUNT** 504m 5,00 A +11 **GROSS** almi tax PRDER: (ha fee roll TAX: _____ **TARE** FEES: ____ 'EHICLE: NET TOTAL '.O./JOB: _ ELIVERY INFORMATION: **DRIVER'S SIGNATURE CUSTOMER COPY 1** Florence Quarry CS33 Central Stone Company Ticket No: 210300 26176 487 St. Pittsfield, IL 62363 Plant (217) 723-4410 ILDOT# 5149204 Main Office: (309) 757-8250 DATE: 5-14-16 :USTOMER: Chare (have prisonnental product: 3 min in factor TONS (US) 609 and 5,00 1 40 **GROSS** PRDER: (natepool 2100 bX TARE 'EHICLE: _____ FEES: _____ **NET** :O./JOB: . **ELIVERY INFORMATION:** DRIVER'S SIGNATURE CUSTOMER COPY 1

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HORETINO: TIMOUT

Florence Quarry CS33 Central Stone Company		Ticket No:
26176 487 St. Pittsfield, Electronic Filing: Received LDQT# 5149204	d, Clerk's Office 10	0/23 2 Carry 7.23 4 10 Carry 7
		DATE: 3-/1-/2
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O./JOB:		TOTAL
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Florence Quarry CS33 Central Stone Company 26176 487 St. Pittsfield, IL 62363		Ticket No: 210305 Plant (217) 723-4410
ILDOT# 5149204		Main Office: (309) 757-8250
		DATE: 5= Los
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Florence Quarry CS33 Central Stone Company 26176 487 St. Pittsfield, IL 62363		Ticket No: 210308 Plant: (217) 723-4410
ILDOT# 5149204	_	M≘in Office: (309) 757-8250
		DATE: <u>5-17-12</u>
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28176 487 St. Pittsfield, IL 82363 ILDOT# 5149204 Electronic Filing: Received	I, Clerk's Office 10/23/2020 (217) 723-4410
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Florence Quarry CS33 Central Stone Company 26176 487 St. Pittsfield, IL 62363 ILDOT# 5149204	Ticket No: 210320 Plant (217) 723-4410 Main Office: (309) 757-8250 DATE: 5-21-18
CUSTOMER: / HASE EN WIROMONTAL	PRODUCT: 3"MINUS
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ORDER: CHABEE DOI	l'
VEHICLE:	FEES:
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DELIVERY INFORMATION:	

DRIVER'S SIGNATURE

Central Stone Company

Florence Quarry Cods

CUSTOMER COPY 1

Hoket No: Ziusui

26176 487 St. Pittsfield, IL 62363	Plant: (217) 723-4410
ILDOT# 5149204 Electronic Filing: Received	1, Cierk's Office 10/23Main/2Mae: (309) 757-8250 DATE: <u>ムン・ノタ</u>
USTOMER: CHASE FAULROUM GITAL	PRODUCT: 3" YOUN
	POUNDS TONS (US) RATE AMOUNT
Bilair Car C	GROSS
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Florence Quarry CS33 Central Stone Company 26176 487 St. Pittsfield, IL 62383 ILDOT# 5149204	Ticket No: 210308 Plant (217) 723-4410 Main Office: (309) 757-8250
	DATE: 5-22.19
CUSTOMER: 14.43E ENVIRONMENTAL	PRODUCT: 3" Inc. 11"
	POUNDS TONS (US) RATE AMOUNT
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VEHICLE:	FEES:
P.O./JOB:	TOTAL
DELIVERY INFORMATION:	

DRIVER'S SIGNATURE

Central Stone Company

Liniating magnity caps

CUSTOMER COPY 1

HONELING. + 14000

Electronic Filing: Received, Clerk's Office 10/23/2020 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

ALEC MESSINA, DIRECTOR

CERTIFIED MAIL #

7017 2680 0001 0206 3067

NOV 1 5 2018

Ted Parker c/o Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62703

Re:

LPC #0010105006 -- Adams County Clayton / Parker's Gas & More, Inc.

101 East Outer Belt Drive

Incident-Claim No.: 951012 -- 69508

Queue Date: August 16, 2018 Leaking UST Fiscal File

Dear Mr. Parker:

The Illinois Environmental Protection Agency (Illinois EPA) has completed the review of your application for payment from the Underground Storage Tank (UST) Fund for the above-referenced Leaking UST incident pursuant to Section 57.8(a) of the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.Subpart F.

This information is dated August 13, 2018 and was received by the Illinois EPA on August 16, 2018. The application for payment covers the period from December 1, 2017 to June 30, 2018. The amount requested is \$577,244.80.

On August 16, 2018, the Illinois EPA received your application for payment for this claim. As a result of Illinois EPA's review of this application for payment, a voucher for \$572,925.56 will be prepared for submission to the Comptroller's Office for payment as funds become available based upon the date the Illinois EPA received your complete request for payment of this application for payment. Subsequent applications for payment that have been/are submitted will be processed based upon the date complete subsequent application for payment requests are received by the Illinois EPA. This constitutes the Illinois EPA's final action with regard to the above application(s) for payment.

The deductible amount for this claim is \$10,000.00, which was previously withheld from your payment(s). Pursuant to Section 57.8(a)(4) of the Act, any deductible, as determined pursuant to the Office of the State Fire Marshal's eligibility and deductibility final determination in accordance with Section 57.9 of the Act, shall be subtracted from any payment invoice paid to an eligible owner or operator.

There are costs from this claim that are not being paid. Listed in Attachment A are the costs that are not being paid and the reasons these costs are not being paid.

Page 2

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or require further assistance, please contact Melissa Owens of my staff at (217)785-9351.

Sincerely,

Gregory W. Dunn, Manager

Leaking Underground Storage Tank Section

Division of Remediation Management

Bureau of Land

GWD:mao

Attachments

c: Parker's Gas & More, Inc.

Leaking UST Claims Unit

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276 217/782-5544

Attachment A Deductions

Re: LPC #0010105006 -- Adams County

Clayton / Parker's Gas & More, Inc.

101 East Outer Belt Drive

Incident-Claim No.: 951012 -- 69508

Queue Date: August 6, 2018 Leaking UST FISCAL FILE

Citations in this attachment are from the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code).

Item # Description of Deductions

1. \$3,755.42, deduction for costs for Remediation and Disposal, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

520.195 tons at \$6.70 per ton plus 7.75% sales tax are being cut from the Backfill line item because they were provided free of charge.

2. \$563.82, deduction for costs for Consultant's Materials that were not approved in a budget. The overall goal of the financial review must be to assure that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in 35 Ill. Adm. Code 734.Subpart H. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.510(b) and 35 Ill. Adm. Code 734.605(a).

Pursuant to 35 Ill. Adm. Code 734.605(a), costs for which payment is sought must be approved in a budget, provided, however, that no budget must be required for early action activities conducted pursuant to 35 Ill. Adm. Code 734.Subpart B other than free product removal activities conducted more than 45 days after confirmation of the presence of free product. The costs associated with Consultant's Materials were not approved in a budget and are, therefore, ineligible for payment.

In addition, the costs exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

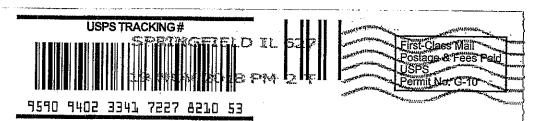
Finally, the costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

\$563.82 for grass seed is being cut.

mao



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete tems 12, and 3 ■ Print your name and address on the naverse so that we can return the care to you ■ Attach this card to the back of the mailpleder or on the front if space permits.	A. Signature X
1.	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
Ted Parker c/o Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62703	Late
	3. Service Type □ Priority Mail Express® □ Adult Signature □ Registered Mail™ □ Redistered Mail Restricted □ Registered Mail Restricted
9590 9402 3341 7227 8210 53	□ Sertified Mail® Delivery □ Certified Mail Restricted Delivery □ Collect on Delivery □ Merchandise
	☐ Collect on Delivery Restricted Delivery ☐ Insured Mail Restricted Delivery (over \$500) ☐ Signature Confirmation ☐ Signature Confirmation ☐ Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt



United States Postal Service

Sender: Please print your name, address, and ZIP+4® in this box

Illinois Environmental
Protection Agency
P.O. BOX 19276 MAIL CODE A
SPRINGFIELD, IL 62794-9276

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