# **UNOFFICIAL COPY**

### PREPARED BY:

Name:

John Robbins

Shell Oil Products US

Address:

14360 South La Grange Rd.

Orland Park, IL 60462

RETURN TO:

Name: John Robbins

Snell Oil Products US

Address:

1511 Forth Convent, 700-293

Bourbonnair, Illinois 60914

Doc#: 1130744089 Fee: \$112.00 Eugene "Gene" Moore RHSP Fee:\$10.00

Cook County Recorder of Deeds

Date: 11/03/2011 04:16 PM Pg: 1 of 39

(THE ABOVE SPACE FOR RECORDER'S OFFICE)

LEAKING UNDERGROUND STORAGE TANK ENVIRONMENTAL NOTICE

THE OWNER AND/OR OPERATOR OF THE CEAKING UNDERGROUND STORAGE TANK SYSTEM(S) ASSOCIATED WITH THE RELEASE REFERENCED BELOW, WITHIN 45 DAYS OF RECEIVING THE NO FURTHER REMEDIATION LETTER CONTAINING THIS NOTICE, MUST SUBMULTHIS NOTICE AND THE REMAINDER OF THE NO FURTHER REMEDIATION LETTER TO THE OFFICE OF THE RECORDER OR REGISTRAR OF TITLES OF COOK COUNTY IN WHICH THE STILL DESCRIBED BELOW IS LOCATED.

Illinois EPA Number: 0312315033 Leaking UST Incident No.: 890852

Shell Oil Products US, the owner and/or operator of the leaking underground storage tank system(s) associated with the above-referenced incident, whose address is 1511 North Convent. 700-293, Bourbonnais, Illinois 60914, has performed investigative and/or ren edial activities for the site identified as follows:

1. Legal Description or Reference to a Plat Showing the Boundaries: LOT 12 AND THAT PART OF LOT 15 IN THE SUBDIVISION OF LOTS 1,2,3 AND 4 OF COTTAGE HOME SUBDIVISION OF THE EAST 1/2 OF THE NORTH EAST 1/4 OF SECTION 9. TOWNSHIP 35 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN (EXCEPT THEREFROM PARTS TAKEN FOR WIDENING OF 143<sup>R11</sup> STREET AND KEAN AVENUE), LYING SOUTH OF THE SOUTH LINE OF LOT 19 IN EAST ORLAND, BEING A SUBDIVISION OF THE EAST 1/2 OF THE NORTH EAST 1/4 OF SECTION 9. TOWNSHIP 36 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, EXTENDED EASTERLY TO THE EAST LINE OF LOT 15 AFORESAID, EXCEPTING THEREFROM THE NORTH 200 FEFT OF PART OF

"THE SIGNATURES OF THE FART LIST XECUTING THIS DOCUMENT ARE COPIES AND ARE NOT ORIGINAL SIGNATURES.\*

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SAID LOT 15 LYING SOUTH OF THE SOUTH LINE OF SAID LOT 19 AS EXTENDED TO THE EAST LINE OF SAID LOT 15, IN COOK COUNTY, ILLINOIS.

- Common Address: 14360 South La Grange Rd. 2.
- Real Estate Tax Index/Parcel Index Number: 27-09-215-029-0000 & 27-08-215-007-3. 0000
- Site Owner: Shell Oil Products US 4.
- Land Use Limitation: The groundwater under the site shall not be used as a potable water 5. IP, nee the Aroberty Or Cook County Clark's Office
- See the attached No Further Remediation Letter for other terms. 6.

srf

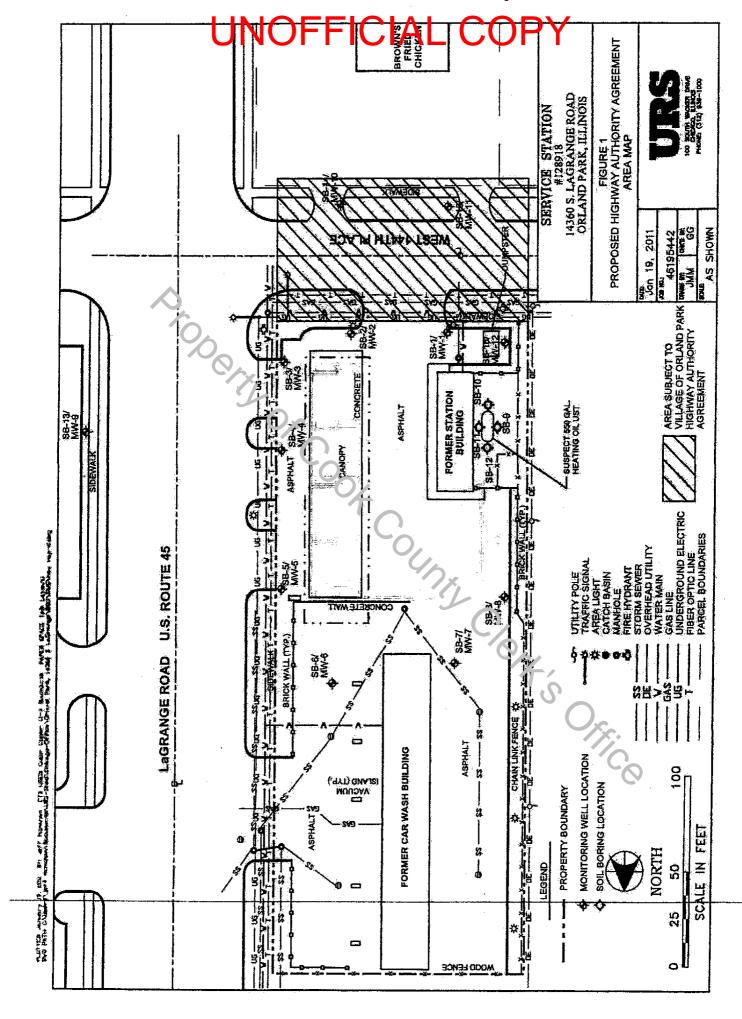
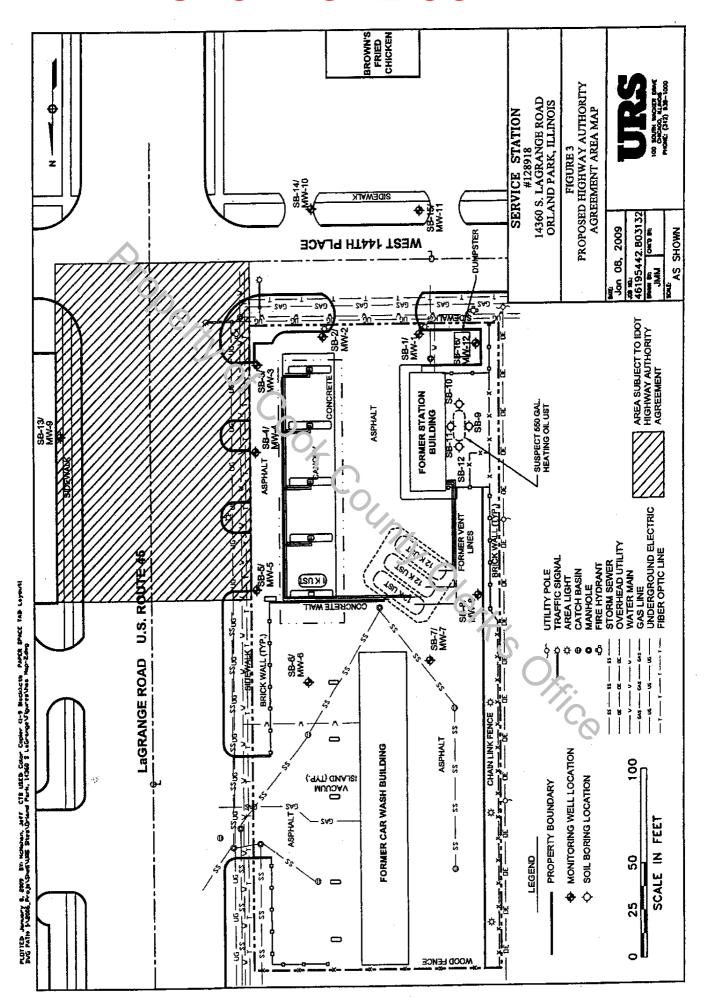
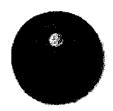


EXHIBIT C

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# ILLINDE FIRE CHARLE GOECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 - (217) 782-2829

JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, ILLINOIS 60601 - (312) 814-6026

PAT QUINN, GOVERNOR

LISA BONNETT, INTERIM DIRECTOR

217/782-6762

CERTIFIED MAIL

7009 3410 0002 3748 1812

SEP 2 9 2011

Shell Oil Products US John Roboins 1511 North Convent, 700-293 Bourbonnais, IZ 60917

Re:

LPC # 0312315033 -- Cook County

Orland Park/She ! Oil Co. 14360 South La Grance Rd.

Leaking UST Incident No. 890852 -- NFR Letter

Leaking UST Technical File

Dear Mr. Robbins:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Completon Report submitted for the above-referenced incident. This information was dated September 15, 2011 and was received by the Illinois EPA on September 21, 2011. Citations in this letter are from the Environmental Protection Act (Act), as amended by Public Act 92-0554 on June 24, 2002, and Public Act 96-0908 on June 8, 2010, and 35 Illinois Administrative Code (35 Ill. Adm. Code).

The Corrective Action Completion Report and associated Licensed Frofessional Engineer Certification submitted pursuant to Section 57.7(b)(5) of the Act and 35 Ill. Adm. Code 734.135(d) indicate corrective action for the above-referenced site was conducted in accordance with the Corrective Action Plan approved by the Illinois EPA. The Corrective Action Completion Report demonstrates that the requirements of Section 57.7(b) of the Act have been satisfied.

Based upon the certification by Claudine Parra, a Licensed Professional Engineer, and pursuant to Section 57.10 of the Act (415 ILCS 5/57.10), your request for a no further remediation determination is granted under the conditions and terms specified in this letter.

Issuance of this No Further Remediation Letter (Letter), based on the certification of the Licensed Professional Engineer, signifies that: (1) all statutory and regulatory corrective action requirements applicable to the occurrence have been complied with; (2) all corrective action concerning the remediation of the occurrence has been completed; and (3) no further corrective action concerning the occurrence is necessary for the protection of human health, safety, and the

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environment. Pursuant to Section 57.10(d) of the Act, this Letter shall apply in favor of the following parties:

- 1. Shell Oil Co., the owner or operator of the underground storage tank system(s).
- 2. Any parent corporation or subsidiary of such owner or operator.
- 3. Any co-owner or co-operator, either by joint tenancy, right-of-survivorship, or any other party sharing a legal relationship with the owner or operator to whom the Letter is issued.
- 4. Any holder of a beneficial interest of a land trust or inter vivos trust whether revocable or irrevocable.
- 5. Any mortgagee of trustee of a deed of trust of such owner or operator.
- 6. Any successor-in-interest of such owner or operator.
- 7. Any transferee of such owner or operator whether the transfer was by sale, bankruptcy proceeding, partition, dissolution of marriage, settlement or adjudication of any civil action, charitable gift, or bequest.
- 8. Any heir or devisee of such owner or operator.
- 9. An owner of a parcel of real property to the extert that this Letter applies to the occurrence on that parcel.

This Letter and all attachments, including but not limited to the Leaking Underground Storage Tank Environmental Notice, must be filed within 45 days of receipt as a single instrument with the Office of the Recorder or Registrar of Titles in the county in which the above-referenced site is located. This Letter shall not be effective until officially recorded by the Office of the Recorder or Registrar of Titles of the applicable county in accordance with imposs law so it forms a permanent part of the chain of title for the above-referenced property. Within 30 days of this Letter being recorded, an accurate and official copy of this Letter, as recorded, shall be obtained and submitted to the Illinois EPA. For recording purposes, it is recommended that the Leaking Underground Storage Tank Environmental Notice of this Letter be the first page of the instrument filed.

### CONDITIONS AND TERMS OF APPROVAL

### LEVEL OF REMEDIATION AND LAND USE LIMITATIONS

1. The remediation objectives for the above-referenced site, more particularly described in the Leaking Underground Storage Tank Environmental Notice of this Letter, were

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### Page 3

- established in accordance with the requirements of the Tiered Approach to Corrective Action Objectives (35 Ill. Adm. Code 742) rules.
- As a result of the release from the underground storage tank system(s) associated with the above-referenced incident, the above-referenced site, more particularly described in the attached Leaking Underground Storage Tank Environmental Notice of this Letter, shall not be used in a manner inconsistent with the following land use limitation: The groundwater under the site shall not be used as a potable water supply. It has been deponstrated that the groundwater under the site meets Class II (General Resource) groundwater criteria rather than Class I (Potable Resource) groundwater. Groundwater classifications are defined at 35 III. Adm. Code 620.Subpart B.
- 3. The land use 'invitation specified in this Letter may be revised if:
  - a. Further investigation or remedial action has been conducted that documents the attainment of objectives appropriate for the new land use; and
  - b. A new No Further Remodiation Letter is obtained and recorded in accordance with Title XVII of the Act and regulations adopted thereunder.

### PREVENTIVE, ENGINEERING, AND INSTITUTIONAL CONTROLS

4. Preventive:

The groundwater under the site described in the attached Leaking Underground Storage Tank Environmental Notice of this Letter shall not be used as a potable supply of water. No person shall construct, install, maintain, or utilize a potable water supply well. In accordance with Section 3.65 of the Act, "potable" means generally fit for human consumption in accordance with accepted water supply principles and practices.

Engineering: N

None.

Institutional:

This Letter shall be recorded as a permanent part of the chain of title for the above-referenced site, more particularly described in the attached Leaking Underground Storage Tank Environmental Notice of this Letter.

### Highway Authority Agreement

The Illinois Department of Transportation agrees, through the use of a Highway Authority Agreement, to allow contaminated groundwater and/or soils to remain beneath its highway right-of-way adjacent to the site located at 14360 South LaGrange Road, Orland Park, Illinois. Specifically, as shown on the attached map, contamination will remain in

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the right-of-way for LaGrange Road/U.S. Route 45 as indicated in the Highway Authority Agreement HAA1050. The Highway Authority agrees to: (a) prohibit the use of groundwater under the highway right-of-way that is contaminated above Tier 1 groundwater remediation objectives as a potable or other domestic supply of water, and (b) limit access to soil contamination under the highway right-of-way that is contaminated above residential Tier 1 soil remediation objectives. A copy of the Highway Authority Agreement can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to the Bureau of Land, FOIA Unit as detailed elsewhere in this letter. Questions regarding the Highway Authority Agreement should be directed to:

Illinois Department of Transportation Region One Engineer Autn: District One Environmental Studies Unit 207 Vest Center Court Schaumburg, Illinois 60196 (847)703-1401

### Highway Authority Agreement

The Village of Orland Park agrees, through the use of a Highway Authority Agreement, to allow contaminated groundwater and/or soils to remain beneath its highway right of-way adjacent to the site located at 14360 South La Grange Rd., Orland Park, Illinois. Specifically, as shown on the attached map, contamination will remain in the right-of-way for West 144<sup>th</sup> Place as indicated in the Highway Authority Agreement. The Highway Authority agrees to: (a) prohibit the use of groundwater under the highway right-of-way that is contaminated above Tier I groundwater remediation objectives as a potable or other domestic supply of water, and (b) limit access to soil contamination under the highway sight-of-way that is contaminated above residential Tier I soil remediation objectives. A copy of the Highway Authority Agreement can be obtained arough a written request under the Freedom of Information Act (5 ILCS 140) to the Bureau of Land, FOIA Unit as detailed elsewhere in this letter. Questions regarding the Highway Authority Agreement should be directed to:

Village of Orland Park Attn: Village Manager 14700 Ravinia Ave. Orland Park, IL 60462 (708) 403-6155

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### Page 5

5. Failure to establish, operate, and maintain controls in full compliance with the Act, applicable regulations, and the approved corrective action plan, if applicable, may result in voidance of this Letter.

### OTHER TERMS

- 6. Any contaminated soil or groundwater removed or excavated from, or disturbed at, the above-referenced site, more particularly described in the Leaking Underground Storage Tens Environmental Notice of this Letter, must be handled in accordance with all applicable laws and regulations under 35 III. Adm. Code Subtitle G.
- 7. Further information regarding the above-referenced site can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Agency
Attention: Freedom of Information Act Officer
Bureau of Land - #24
1021 North Grand A venue East
Post Office Box 19276
Springfield, IL 62794-9276

- 8. Pursuant to 35 III. Adm. Code 734.720, chould the Illinois EPA seek to void this Letter, the Illinois EPA shall provide Notice of Voidance to the owner or operator of the leaking underground storage tank system(s) associated with the above-referenced incident and the current title holder of the real estate on which the tanks were located, at their last known addresses. The notice shall specify the cause for the voidance, explain the provisions for appeal, and describe the facts in support of the voidance. Specific acts or omissions that may result in the voidance of this Letter include, but shall not be limited to:
  - a. Any violation of institutional controls or industrial/commercial land use restrictions:
  - b. The failure to operate and maintain preventive or engineering combols or to comply with any applicable groundwater monitoring plan:
  - c. The disturbance or removal of contamination that has been left in-place in accordance with the Corrective Action Plan or Completion Report;
  - d. The failure to comply with the recording requirements for the Letter.
  - e. Obtaining the Letter by fraud or misrepresentation; or

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# **UNOFFICIAL CO**

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Subsequent discovery of contaminants, not identified as part of the investigative f. or remedial activities upon which the issuance of the Letter was based, that pose a threat to human health or the environment.

Submit an accurate and official copy of this Letter, as recorded, to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office 35x 19276 Springfield, IL 52794-9276

If you have any questions crired further assistance, please contact the Illinois EPA project manager, Suzanne Fernandes, at (217)558-4071.

Sincerely,

Michael T. Lowder

Unit Manager

Leaking Underground Storage Tank Section

Division of Remediation Management

Bureau of Land

MTL:srf

Junit Clark? Attachments: Leaking Underground Storage Tank Environmental Notice

Site Base Map with IDOT HAA Area

Site Base Map with Village of Orland Park HAA Area

Marcos Czakó, URS Corporation c:

**BOL** File

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April 6, 2011

Shell Oil Products US Attn: John Robbins, Environmental Program Manager 1:11 N. Convent 700-293 Pou bonnais, IL 60914

Re: TACO Agreement: HAA 1050 in Orland Park, IL

Dear Mr. Robbins:

I have enclosed a fully executed original Highway Authority Agreement for the above site.

Please submit the agreement to the Illinois Environmental Protection Agency for their approval.

Thank you for your cooperation in this matter.

Sincerely,

Michael Prater

Assistant Chief Counse

Enclosure

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**HAA 1050** 

### HIGHWAY AUTHORITY AGREEMENT

This Agreement is entered into this 21st day of March, 2011 pursuant to 35 III.

Adm. Code 742.1020 by and between **Shell Oil Products US** "Owner/Operator" and Illinois Department of Transportation "Highway Authority," collectively known as the "Parties."

WHEREAS, Shell Oil Products US is the owner or operator of one or more leaking underground storage tanks presently or formerly located at Shell Service Station 14360 South LaGrange Road, Orland Park, *Illinois* ("the Site");

WHEKEAS, as a result of one or more releases of contaminants from the above referenced underground storage tanks "the Release(s)", soil and/or groundwater contamination at the Site exceeds the Tier 1 residential remediation objectives of 35 III. Adm. Code 742;

**WHEREAS**, the soil and/or groundwater contamination exceeding Tier 1 residential remediation objectives extends or may extend into the Highway Authority's right-of-way;

WHEREAS, the Owner/Operator is conducting corrective action in response to the Release(s);

WHEREAS, the Parties desile to prevent groundwater beneath the Highway Authority's right-of-way that exceeds Tier 1 remediation objectives from use as a supply of potable or domestic water and to limit access to soil within the right-of-way that exceeds Tier 1 residential remediation objectives so that human health and the environment are projected during and after any access;

### NOW, THEREFORE, the Parties agree as follows:

- 1. The recitals set forth above are incorporated by reference as if fully set forth herein.
- 2. The Illinois Emergency Management Agency has assigned incident number(s) 890852 to the Release(s).
- 3. Attached as Exhibit A is a scaled map(s) prepared by the Owner/Corrator that shows the Site and surrounding area and delineates the current and estimated future extent of soil and groundwater contamination above the applicable Tier 1 residential remediation objectives as a result of the Release(s).
- 4. Attached as Exhibit B is a table(s) prepared by the Owner/Operator that lists each contaminant of concern that exceeds its Tier 1 residential remediation objective, its Tier 1 residential remediation objective and its concentrations within the zone where Tier 1 residential remediation objectives are exceeded. The locations of the concentrations listed in Exhibit B are identified on the map(s) in Exhibit A.
- 5. Attached as Exhibit C is a scaled map prepared by the Owner/Operator showing the area of the Highway Authority's right-of-way that is governed by this agreement ("Right-of-Way"). Because Exhibit C is not a surveyed plat, the Right-of-Way boundary may be an approximation of the actual Right-of-Way lines.
- 6. The Highway Authority stipulates it has jurisdiction over the Right-of-Way that gives it sole control over the use of the groundwater and access to the soil located within or beneath the Right-of-Way.
- 7. The Highway Authority agrees to prohibit within the Right-of-Way all potable and domestic uses of groundwater exceeding Tier 1 residential remediation objectives.

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**HAA 1050** 

8. The Highway Authority further agrees to limit access by itself and others to soil within the Right-of-Way exceeding Tier 1 residential remediation objectives. Access shall be allowed only if human health (including worker safety) and the environment are protected during and after any access. The Highway Authority may construct, reconstruct, improve, repair, maintain and operate a highway upon the Right-of-Way, or allow others to do the same by permit. In addition, the Highway Authority and others using or working in the Right-of-Way under permit have the right to remove soil or groundwater from the Right-of-Way and dispose of the same in accordance with applicable environmental laws and regulations. The Highway Authority agrees to issue all permits for work in the Right-of-Way, and make all existing permits for work in the Right-of-Way, subject to the following or a substantially similar condition:

As a condition of this permit the permittee shall request the office issuing this permit to identify sites in the Pight-of-Way where a Highway Authority Agreement governs access to soil that exceeds the tier 1 residential remediation objectives of 35 III. Adm. Code 742. The permittee shall take all measures necessary to protect human health (including worker safety) and the environment during and after any access to such soil.

- 9. This agreement shall be referenced in the Agency's no further remediation determination issued for the Release(s).
- 10. The Agency shall be notified of any transfer of jurisdiction over the Right-of-Way at least 30 days prior to the date the transfer takes effect. This agreement shall be null and void upon the transfer unless the transferee agrees to be bound by this agreement as if the transferee were an original party to this agreement. The transferee's agreement to be bound by the terms of this agreement shall be memorialized at the time of transfer in a writing ("Rider") that references this Highway Authority Agreement and is signed by the Highway Authority, or subsequent transferor, and the transferee.
- 11. This agreement shall become effective as a Highway Authority Agreement on the date the Agency issues a no further remediation determination for the Release (s). It shall remain effective as a Highway Authority Agreement until the Right-of-Way is demonstrated to be suitable for unrestricted use and the Agency issues a new no further remediation determination to reflect there is no longer a need for this agreement, or until the agreement is otherwise terminated or voided.
- 12. In addition to any other remedies that may be available, the Agency may bring suit to enforce the terms of this agreement or may, in its sole discretion, declare this agreement null and void if any of the Parties or any transferee violates any term of this agreement. The Parties or cansferee shall be notified in writing of any such declaration.
- 13. This agreement shall be null and void as a Highway Authority Agreement if a court of competent jurisdiction strikes down any part or provision of the agreement.
- 14. This agreement supersedes any prior written or oral agreements or understandings between the Parties on the subject matter addressed herein. It may be altered, modified or amended only upon the written consent and agreement of the Parties.
- 15. Any notices or other correspondence regarding this agreement shall be sent to the Parties at following addresses:

Manager, Division of Remediation Management Bureau of Land Illinois Environmental Protection Agency P.O. Box 19276 Springfield, IL 62974-9276

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**HAA 1050** 

If to Owner/Operator:

Shell Oil Products US
Attn: John Robbins
Environmental Program Manager
1511 N. Convent 700-293
Bourbonnais, Illinois 60914

And to:

URS Corporation
Attn: Galina Georgiew
100 South Vacker, Suite 500
Chicago, Illing's 60606

If to Department:

Illinois Department of Transportation Region One Engineer Attn: District One Environmental Studies Unit 201 West Center Court Schaumburg, Illinois 60196

And to:

Illinois Department of Transportation Attn: Assistant Chief Counsel 2300 S. Dirksen Parkway, Room 313 Springfield, Illinois 62764

- 16. This Agreement is not funding upon the Department until it is executed by the undersigned representative of the Department. Prior to execution by the undersigned representative of the Department this Agreement constitutes an offer by Owner/Operator. The duly authorized representatives of Owner/Operator if ave signed this Agreement and this Agreement is binding upon them, their successors and assigns
- 17. The IEPA and Illinois Attorney General AC" must review and approve this Agreement, and this Agreement shall be referenced in the IEPA's "No Further Remediation" determination in the chain of title for the Site in the county where the Site is located. This Agreement shall be null and void as a Highway Authority Agreement should the IEPA or AG not approve it or should it not be referenced in the "No Further Remediation" determination, provided, however, that this Agreement shall be effective between the Owner/Operator and the Department immediately upon signature by their representatives.
- 18. The Owner/Operator agrees to defend, indemnify and hold harmless the Department, and other highway authorities, if any, maintaining the highway Right-of-Way by an agreement with the Department, and the Department's agents, contractors or employees for all obligations asserted against or costs incurred by them, including reasonable attorney's fees and court costs, associated with the release of Contaminants from the Site, regardless whether said obligations or costs were caused by the negligence, but not the gross negligence, of them.
- 19. As an additional consideration, Owner/Operator agrees to reimburse the Department for reasonable costs to protect human health and the environment, including, but not limited to, iden'itying, investigating, handling, storing and disposing of contaminated soil and/or groundwater in the Right-of-Way as a result of the release of contaminants at this Site. It has been determined that the Department has not incurred any reimbursable costs at the time this Agreement is executed by the undersigned representative of the Department. If future costs are incurred, a cashier's check made payable to "Treasurer, State of Illinois" shall be tendered to the Department of Transportation upon demand by the Department.
- 20. Violation of the terms of this Agreement by Owner/Operator, or their successors in interest, may be grounds for voidance of this Agreement as a Highway Authority Agreement. Violation of the terms of this Agreement by the Department will not void this Agreement, unless the IEPA has determined that the violation is grounds for voiding this Agreement as a Highway Authority Agreement and the Department has not cured the violation within such time as IEPA has granted to cure the violation.

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**HAA 1050** 

- 21. This Agreement is in settlement of claims the Department may have arising from the release of Contaminants into the Right-of-Way associated with IEMA incident numbers 890852.
- 22. Prior to accessing or granting access to the soil as provided in Paragraph 8 herein, the Department will first give Owner/Operator written notice, unless there is an immediate threat to the health or safety to any individual or to the public, that it intends to perform a site investigation in the Right-of-Way and remove or dispose of contaminated soil or groundwater to the extent necessary for its work. Failure to give notice is not a violation of this Agreement. The removal or disposal shall be based upon the site investigation (which may be modified by field conditions during excavation). A copy of the site investigation report will be provided to Owner/Operator. If practicable, as reasonably determined by the Department, the Department may provide Owner/Operator with an opportunity to perform the Site investigation and to remove and dispose of the contaminated soil and/or groundwater necessary for the Department's work in advance of that work.

The Owner/Operator shall reimburse the reasonable costs incurred by the Department to perform the site investigation and to dispose of any contaminated soil or groundwater, provided, however, that if notice to Owner/Operator has not been given and there was no immediate threat to health or safety, reimbursement for those costs shall be limited to \$10,000.00. There is a rebuttable presumption that the Contaminants found in the nighway Right-of-Way arose from the release of Contaminants from the Site. Should Owner/Operator not reimburse the reasonable costs under the conditions set forth herein, this Agreement shall be null and void, at the Department's option, upon written notice to Owner/Operator by the Department that those costs have not been reimbursed. Owner/Operator may cure that problem within twenty working days by making payment, or may seek to enjoin that result.

23. The Department's sole responsibility under this Agreement with respect to others using the highway Right-of-Way under permit from the Department is to include the following, or similar language, in the future standard permit provisions and to make an effect to notify its current permit holders of the following:

As a condition of this permit the permittee shall request the office issuing this permit to identify sites in the Right-of-Way where a Highway Authority Agreement governs access to soil that exceeds the Tier 1 residential remediation objectives of 35 III. Adv.: Code 742. The permittee shall take all measures necessary to protect human health (including worker safety) and the environment during and after any access to such soil.

Owner/Operator hereby releases the Department from liability for breach of this Agreement by others under permit and agrees to defend and indemnify the Department against claims that may arise from others under permit causing a breach of this Agreement. Owner/ Operator agrees that its personnel, if any, at the Site who are aware of this Agreement will notify anyone they know is excavating in the Right-of-Way about this Agreement.

24. Should the Department breach this Agreement, Owner/Operator's sole remedy is for an action for damages in the Illinois Court of Claims. Any and all claims for damages against the Department, its agents, contractors, employees or its successors in interest arising at any time for a breach of paragraphs 7 and 8 of this Agreement are limited to an aggregate maximum of \$20,000.00. No other breach by the Department, its agents, contractors, employees and its successors in interest of a provision of this Agreement is actionable in either law or equity by Owner/Operator against the Department or them and Owner/Operator hereby releases the Department, its agents, contractors, employees and its successors in interest for any cause of action it may have against them, other than as allowed in this paragraph, arising under this Agreement or environmental laws, regulations or common law governing the contaminated soil or groundwater in the highway Right-of-Way. Should the Department convey, vacate or transfer jurisdiction of that highway Right-of-Way, Owner/Operator

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**HAA 1050** 

may pursue an action under this Agreement against the successors in interest, other than a State agency, in a court of law.

25. This Agreement is entered into by the Department in recognition of laws passed by the General Assembly and regulations adopted by the Pollution Control Board which encourage a tiered-approach to remediating environmental contamination. This Agreement is entered into by the Department in the spirit of those laws and under its right and obligations as a highway authority.

Should any provisions of this Agreement be struck down as beyond the authority of the Department, however, this Agreement shall be null and void.

IN WITNESS WHEREOF, Owner/Operator, Shell Oil Products US, has caused this Agreement to be signed by its ruly authorized representative.

BY:	Xolin Kalish	DATE:	Blill	
-	Joyin Robbins			
	Ervironmental Program Manager			

Gary Hannig Secretary

D

This Agreement is approved on behalf of the Office of the Illinois Attorney General.

Matthew J. Dunn

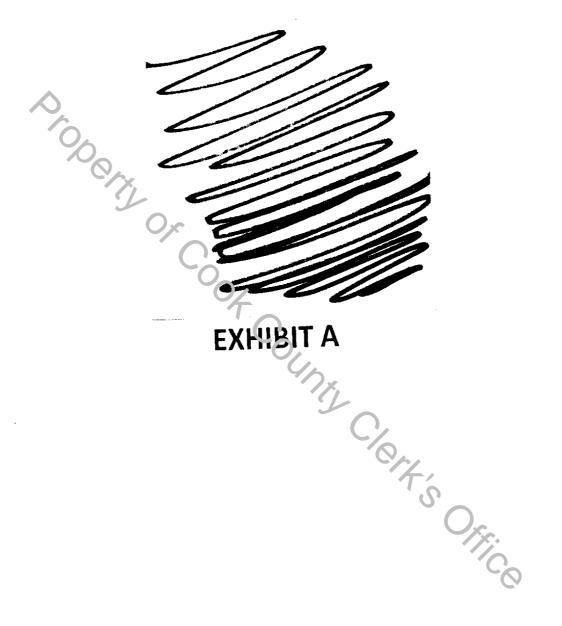
Assistant Attorney General

Chief, Division of Environmental/Asbestos Litigation

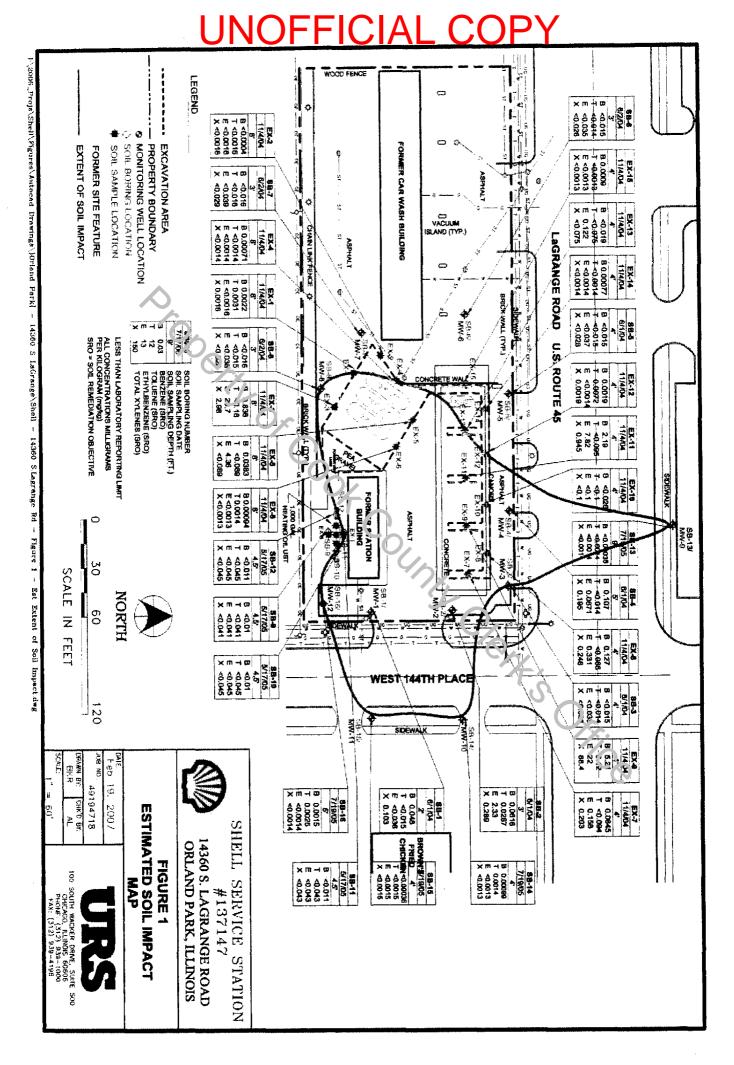
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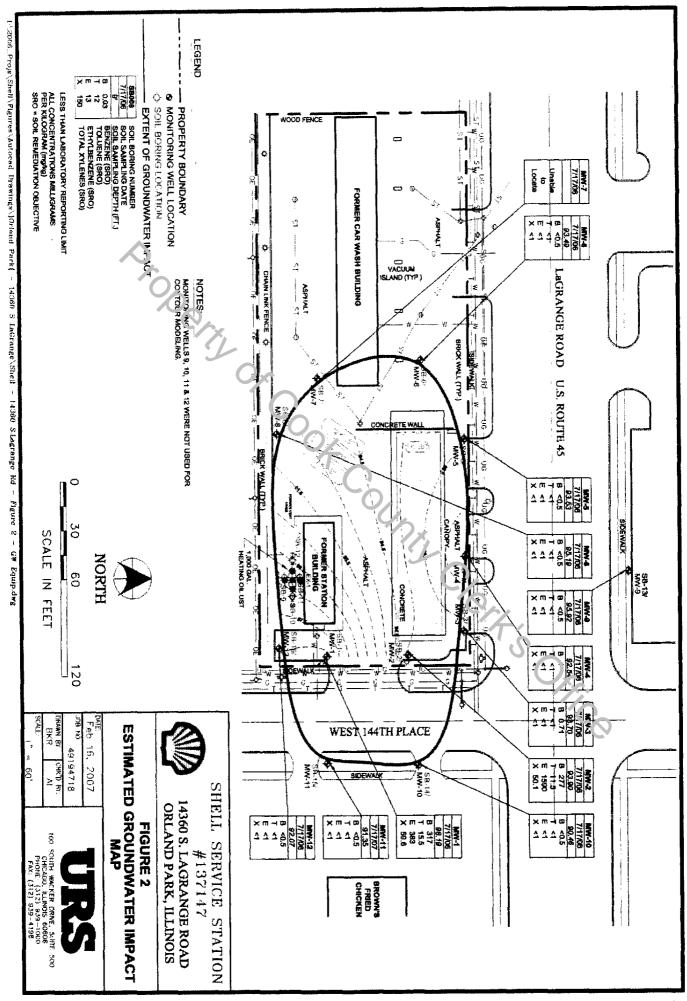


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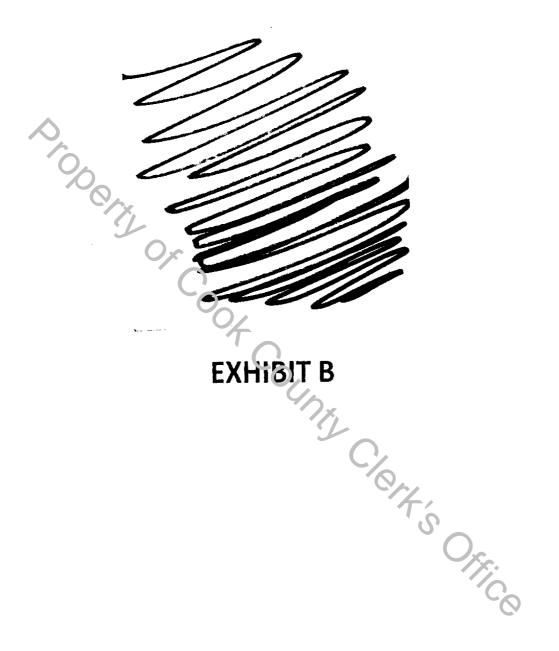
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### Table 1

### SOIL ANALYTICAL RESULTS - BTEX Former Shell Service Station # 137147 14360 S. LaGrange Road, Orland Park, Illinois

Tier 1 SRO - Migration t Ground		Class I	0.03	12	13	<b>150</b>
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Tier ! - SRO - Construc	ion Worker Ind	A STATE OF THE STA		A CONTRACTOR OF THE PROPERTY O		520
/Twe/ SRO - Resid	lentia, - Ingestic		2	16.000	7,800	160,300
	Dete	Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	X Jenes (me/kg)
SP 1	6/1/2004	2	0.048	<0.015	<0.036	0.103
SP-2	6/1/2004	3	0.0616	0.0287	2.33	0.289
SB-3	6/1/2004	4	<0.015	< 0.014	<0.035	< 0.026
SB-4	6/1/2004	5	0.107	<0.014	0.0671	0.195
SB-5	6'72004	4	<0.015	<0.015	<0.037	<0.028
SB-6	6/2/2004	3	<0.015	<0.014	<0.035	<0.026
SB-7	6/2 2004	3	<0.016	<0.016	<0.039	<0.029
SB-8	6/2/200/	3	<0.016	<0.015	<0.038	<0.028
EX-1	11/4/2004		0.0022	0.0031	<0.0016	0.0016
EX-2	11/4/2004	2	<0.0004	<0.0016	<0.0016	<0.0016
EX-3	11/4/2004	8	<u> </u>	<0.18	20.7	2.98
EX-4	11/4/2004	8	0.00 071	<0.0014	<0.0014	<0.0014
EX-5	11/4/2004	8	U. 38.	<0.089	4.36	<0.089
EX-6	11/4/2004	- 8	0.00094	0.0014	<0.0013	<0.0013
EX-7	11/4/2004	4	0.0845	<0.094	0.158	0.203
EX-8	11/4/2004	4	0.127	-0.738	0.331	0.248
EX-9	11/4/2004	4	5.21	3.12	22	88.4
EX-10	11/4/2004	4	<0.026	<0.1	<0.1	<0.1
EX-11	11/4/2004	4	2.19	<0.095	7.82	0.945
EX-12	11/4/2004	4	0.0019	0.0072	<0.0014	0.0019
EX-13	11/4/2004	4_	<0.019	<0.075	0.122	<0.075
EX-14	11/4/2004	4	0.00077	<0.0014	<0.001/.	<0.0014
EX-15	11/4/2004	4	0.0009	<0.0013	<0.0013	<0.0013
SB-9	5/17/2005	4.5	<0.010	<0.041	<0.041 <0.045	<0.041
SB-10	5/17/2005	4.5 4.5	<0.011	<0.045 <0.043	<0.043	20.047
SB-11	5/17/2005		<0.011			1
SB-12	5/17/2005	4.5	<0.011	<0.045	<0.045	<0.0014
SB-13	7/19/2005	4	0.00099	0.0014	<0.0014	<0.0014
SB-14 SB-15	7/19/2005 7/19/2005	4	< 0.00036	<0.0014	<0.0015	<0.0015
SB-15	7/19/2005	5	0.0015	0.0015	<0.0013	<0.0013
EX-1	7/21/2006	5	0.0013	0.0023	0.001	0.003
EX-1 EX-2	7/21/2006	5	0.001	0.001	0.001	0.002
EX-2 EX-3	7/21/2006	5	0.001	0.001	0.001	0.002
EX-4	7/21/2006	5	0.001	0.001	0.001	0.003
	112112000	9	0.001	0.002	0.002	0.004

mg/kg = milligrams per kilogram (parts per million)

SRO = soil remediation objective

Bold = Analytical result is above the Tier 1 SRO for Class I groundwater

<0.002 = Not detected above laboratory limits.

MTBE = Methyl tertiary-butyl ether

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Table 2

### Groundwater Elevation and BTEX Concentrations Former Shell Service Station # 137147 14360 S. LaGrange Road, Orland Park, IL

	Tler I (	380 - Class I Gro			<b>5</b>	1,000	700	10,000
		RO-CSS II Ga			<b>3</b>	2,500	1,600	10,000
MONITORING WELL#		Top of Casing Elevation (R)	Depth to Geomoderates (B)		Bennene (µg/L)		Enbydessen (MgC)	X) feet (sell)
	6/2/2004	97.13	3.48	93.65	161	6.7	212	25.1
	9/9/2004	97.13	3.92	93.21	397	12.6	388	5,1
	12/20/2004	97.13	3.85	93.28	201	7.4	366	44.9
MW-1	3/25/2005	97.13	3.37	93.76	168	10.3	391	57.6
	5/20/2005	97.13	2.53	94.60	343	16.7	781	40.5
	8/9/2005	100.85	3.70	97.15	317	15.5	383	59.6
	7/17/2006	100.85	2.66	98.19	436	9.73	368	48.2
	0/2/2/04	97.24	3.84	93.40	322	14.4	1590	74.2
	5197° J04	97.24	5.87	91.37	339	5.7	642	
	12/20/2004	97.24	4.18	93.06	229	1.8	500 52.3	50.2 7.9
MW-2	3/25/2005	97.24	4.76	92.48	45.5	9.9	899	71.5
	5/20/2005	77.24	3.79	93.45 92.21	226	11.5	1590	50.1
	8/9/2005	97.24	5.03	93.90	272	8.41	1990	51.2
	7/17/2006	97.2	3.34		40.1	0.99	31	23.8
	6/2/2004	97.15	13.19	84.00 91.47	11.1	<1	4.4	1.8
	9/9/2004	97.19	5.72	91.93	3	<1	<1	<1
3.6317.7	12/20/2004	97.19 97.19	3.20	96.79	1	<1	<1	<1
MW-3	3/25/2005 5/20/2005	97.19	2 27	94.92	<0.5	<1	<1	<1
	8/9/2005	97.19	5.70	91,49	0.71	<1	<1	<l< td=""></l<>
	7/17/2006	97.19	3.49	93.70	<1	<1	<1	<3
	6/2/2004	96.97	Dry	248			Ory Well	
	9/9/2004	96.97	4.88	92.09	6.5	<1	<1	<1
	12/20/2004	96.97	4.90	92.07	10.3	<1	<1	<1
MW-4	3/25/2005	96.97	4.81	92.1	3	<1	<1	<l< td=""></l<>
	5/20/2004	96.97	4.57	92.40	9.9	<1	<1	<1
	8/9/2005	96.97	5.03	91.94		<1	<i< td=""><td>&lt;1</td></i<>	<1
	7/17/2006	96.97	4.43	92.54	<	<1	<1	<3
	6/2/2004	96.56	3.41	93.15	<0.31	<0.14	< 0.27	<0.1
	9/9/2004	96.56	4.46	92.10	<0.5	<i< td=""><td>&lt;1</td><td>&lt;1</td></i<>	<1	<1
	12/20/2004	96.56	4.14	92.42	<0.5	<1	<i< td=""><td>&lt;1</td></i<>	<1
MW-5	3/25/2005	96.56	3.57	92.99	<0.5	<1 _	<1	< <u>i</u>
	5/20/2005	96.56	3.40	93.16	<0.5	<1	<1	<1
	8/9/2005	96.56	4.35	92.21	<0.5	<1	1 4	<1
	7/17/2006	96.56	3.03	93.53	<1	<1	<1	ে
	6/2/2004	95.75	1.87	93.88	<0.31	<0.14	<0.27	<0.1
	9/9/2004	95.75	3.17	92.58	<0.5	<1	<10	<u> </u>
	12/20/2004	95.75	3.18	92.57	<0.5	<1	<1	<u> </u>
MW-6	3/25/2005	95.75	NA	NA NA		1	FULL	
	5/20/2005	95.75	2.50	93.25	<0.5	<1	<1.	1-4
	8/9/2005	95.75	3.90	91.85	<0.5	<u>&lt;1</u>	<1 <1	3
	7/17/2006	95.75	2.26	93.49	<1	<1	<0.27	<b>√</b> 0.1
	6/2/2004	96.15	2.91	93.24	<0.31	<0.14 <1	<0.27	<1
	9/9/2004	96.15	2.37	93.78	<0.5 <0.5	<1 <1	<1	<1
1017	12/20/2004	<del></del>	2.26	93.89 95.15	<0.5	<1	<1	<1
MW-7	3/25/2005 5/20/2005	96.15 96.15	0.88	95.13	<0.5	<1 <1	<1	<1
	8/9/2005	96.15	1.85	94.30	<0.5	<1	<1	<1
	7/17/2006		1,03		BLE TO LO			

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Table 2

### **Groundwater Elevation and BTEX Concentrations** Former Shell Service Station # 137147 14360 S. LaGrange Road, Orland Park, IL

	Tier 1 G	RQ+Q <del>uis</del> I God	adwaler		5	1,000	700	10,00
	Tier I CI	KO-Casa II Gro	医乳洗蜂物 助弃籍 古古		25	2,500	1,000	10,00
	6/2/2004	97.56	7.10	90.46	<0.31	<0.14	<0.27	<0.1
	9/9/2004	97.56	3.76	93.80	<0.5	<1	<1	<b>~</b> 1
	12/20/2004	97.56	3.37	94.19	<0.5	<1	<1	<1
MW-8	3/25/2005	97.56	1.90	95.66		SAMP	LE BROKEN	
	5/20/2005	97.56	2.03	95.53	<0.5	<1	<1	<1
	8/9/2005	97.56	3.55	94.01	<0.5	<1	<i< td=""><td>V.</td></i<>	V.
	7/17/2006	97.56	2.37	95.19	<1	<1	<1	<3
MW-9	8/9/2005	97.85	5.67	92.18	<0.5	<1	<1	<1
	7/17/2006	97.85	1.93	95.92	<1_	<1	<1	ব
107/10	P 9/2005	97.00	7.85	89.15	<0.5	<1	<1	<1
MW-10	7 17/2 006	97.00	6.54	90.46	<1	<1	<1	<3
	8/9/2F .15	96.88	7.40	89.48	<0.5	<1	<1	<1
MW-11	7/17/2006	96.88	5.53	91.35	<1	<1	<1	<3
	8/9/2005	26.88	5.00	91.88	<0.5	<1	<1	<1
MW-12	7/17/2006	05.38	4.81	92.07	<1	<1	<1	<3
TMW-1	5/17/2005	NA	NA	NA	<0.5	<1	<1	3.1

NM = Not Analyzed

 $\mu g/L = micrograms per liter (parts per billion)$ 

GRO = groundwater remediation objective

Bold = Analytical result is above the Tier 1 GRO for Clas 1 gr aundwater County Clark's Office

<1 = Not detected above laboratory limits.

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Soll Component of Groundwater Ingestion Exposure Bout RBCA R12 R14 Equation Results for BTEX Former Shell Service Station # 137147 14390 S. Ledrange Road Orland Park, Illenois

|               |                        | •                       |   |  |  | •   
   
   |  |   |   |  
  |   | Parties Add  
  | 5  | 3   |   | 5  | 200  
  |
|---------------|------------------------|-------------------------|---|--|--
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--|---|---|---|---
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--|---|---|--|---|
| Conc. At site | ž                      | 3                       | Ž   | Soil Porosity  | _  | Carbon  
   
   | Carbon   | Sorption  | Conductivy  | Gradient (i)   
  | Velocity  | Zone   
  | Rate (1)   | Area lle to GW  | Factor (LFsw)   | ₹  | Maximum GW   
  |
| (mg/kg)       | Density                | Porosity                | Constant  | (Theta w)  |  | Partitioning  
   
   | Content in   | Coeff (Ks)  | (K) cm/y  | cm/cm  
  | (Uow) cm/yr   | Thickness  
  | cmyk   | flow direc. (W)   | £   |  | Conc (no/L)  
  |
|               | mo no/ô                | (Theta a)               | £   | •  |  | Coeff. (Koc)  
   
   | Soll (foc)   | (F20)   | MW-6  |  
  | (R24)   | (wo)   
  |  | E   |   |  | Csource  
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|               |                        |                         | ľ   | <u> </u>   | T  |   
   
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  |  |   |   |  |  
  |
| 0.048         | 1.5                    | 0.13                    | 0.228   | 6.9  | 0.43   | 6.85  
   
   | 0.002  | 0,1178  | 623   | 9,014  
  | 8.722   | 500  
  | -<br> 8  | 7163  | 2.9386  | 0.14   | 141.06   
  |
| 0.0516        | 1.5                    | 0.13                    | 0.226   | 0.3  | 0.43   | 56.9  
   
   | 2000   | 0.1178  | 623   | 4.014  
  | 9.722   | 200  
  |  | 7163  | 2.9386  | 0,18   | 181.02   
  |
| 0.107         | 1,6                    | 0.13                    | 872'0   | 0.3  | 0.43   | 6.88  
   
   | 0.002  | 0.1178  | 623   | 410.0  
  | 8.722   | Ŕ  
  | )<br>(3)   | 7183  | 2.8386  | 0,31   | 314.43   
  |
| 0.836         | 1.5                    | 0.13                    | 0.228   | 0.3  | 0.43   | 58.9  
   
   | 0.002  | 0.1178  | 623   | 0.014  
  | 8.722   | 200  
  | 83   | 2,163   | 2.0384  | 2.48   | 2,456.65   
  |
| 0.0383        | 1.5                    | 0.13                    | 0.228   | 0.3  | 0,43   | 6.83  
   
   | 0.002  | 0.1178  | 623   | ₽10'0  
  | B.722   | 28.  
  | 8  | 7163  | 2.8368  | 0,31   | 112.55   
  |
| 0.0845        | 1.5                    | 0.13                    | 0.228   | 0.3  | 0.43   | 58.9  
   
   | 0.002  | 0.1178  | 623   | 910.0  
  | 8.722   | 100  
  | 8  | 7163  | 2.8266  | 52.0   | 268,31   
  |
| 0.127         | 1.5                    | 0.13                    | 0.226   | 6.3  | 0.43   | 8.88  
   
   | 0.002  | 0.1178  | 523   | D.014  
  | 8.722   | 180  
  | 8  | 7163  | 2,9396  | 0.37   | 373.20   
  |
| 5.21          | 1,5                    | 0.13                    | 0.228   | 0.3  | 5.0  | 58.0  
   
   | 0.002  | 0.1178  | 623   | 9100   
  | 8772  | 00%  
  | 8  | 7163  | 2.9386  | 15.31  | 15.310,01  
  |
| 2.16          | 1.5                    | 0,13                    | 0.228   | 6,3  | 0.43   | 56.9  
   
   | 0.002  | 0.1178  | 523   | 6.014  
  | 22  | 82   
  | 8  | 7163  | 2,8386  | 77.8   | 8.435.49   
  |
|               |                        |                         |   |  |  |   
   
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  |
| 7.02          | 1.5                    | 0.13                    | 0.325   | 6.0  | 0.43   | 383   
   
   | 0.002  | 922.0   | 623   | ¥10°0  
  | 8.722   | 88   
  | 8  | 7183  | 1.0358  | 21.52  | 21523 54   
  |
| Z             | 1.5                    | 0.13                    | 0.323   | 0.3  | 0.43   | 363   
   
   | 0.002  | 97.0  | 623   | 0.014  
  | 1.722   | 88   
  | 8  | 7163  | 1.0368  | 22.88  | 22875.26   
  |
|               |                        |                         |   |  |  |   
   
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| ogram         |                        |                         |   |  |  |   
   
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  | ),  |  
  |  |   |   |  |  
  |
|               | (mg/kg) (mg/kg) (0.048 | (mg/kg) Density O'Ou cm | (mg/kg) Density Porceity Octocan (Thelia a) Octocan (15 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 | (mg/kg) Density Porceity Constant Occusion (H) Occusion ( | Agy Density Porosity Constant (TT Pela a) (H) (H) (TT Pela a) (H) (H) (TT Pela a) (H) (TT Pela | ng/kg)         Density Porcsity Constant (Theia w)         (H°)         (Theia w)           00u cm         Theia a)         (H°)         0.33         0.43           016         1.5         0.13         0.226         0.3         0.43           0.80         1.5         0.13         0.228         0.3         0.43           0.83         1.5         0.13         0.228         0.3         0.45           0.84         1.5         0.13         0.228         0.3         0.45           0.84         1.5         0.13         0.228         0.3         0.45           0.87         1.5         0.13         0.228         0.3         0.45           0.19         0.228         0.3         0.45         0.45           0.19         0.13         0.228         0.3         0.43           0.19         0.13         0.228         0.3         0.43           0.19         0.13         0.228         0.3         0.43           0.19         0.13         0.228         0.3         0.43           0.19         0.13         0.28         0.3         0.43           0.2         0.13         0.32         0.3 <td>Partitioning Coeff (Koc) Coeff</td> <td>ng/kg)         Density         Porosity         Contatant         (Theta w)         Partitloning         Content in Conte</td> <td>ng/kg)         Density         Porosity         Contitant         (Theta w)         Partitloning         Content in         Content in</td> <td>ng/kg)         Density         Porosity         Contitant         (Theia w)         Partitioning Content in Coeff (Ks)         (K) critical MW-d Coeff (Ks)         (K</td> <td>Op/En         Density         Powershity         Constitute         (Theia w)         Partitioning         Content in         Confirm         MAV-6         MAV-6         MAV-6         MAV-6         Confirm         MAV-6</td> <td>ng/kg)         Density         Porosity         Constant         (Theia w)         Partitioning         Content in Coeff (Ks)         (K) cm/y         cm/cm/y         <th< td=""><td>ng/kg)         Density         Porcisity         Constant         (Theia w)         Partitioning Content in Coeff (Ks)         (N) cmyr         Cm/cmyr         (N) cmyr         Thing content in Coeff (Ks)         (N) cmyr         (R24)         (R25)         (R24)         (R25)</td><td>ng/kg)         Density         Pocosity         Contatant         (Thela w)         Paratiboning Content in Content in</td><td>πρίκη         Density         Porosity         Contatant         (Theia w)         Partitioning Content in Order in Confert in Co</td><td>ng/kg)         Density         Pocosity         Constitution         Confertion         Confertion<td>πράξη         Density         Pocusity         Constitut         (Theia w)         Density processing         Constitution         Constitution         Constitution         Constitution         Constitution         (May of many processing)         Constitution         (May of many processing)         (Upw) cmmy         Thickness         cmmy         (Theia s)         (H)         (H)         (H)         (H)         (May of many processing)         (Upw) cmmy         (Upw) cmmy         (Ipm) cmmy</td></td></th<></td> | Partitioning Coeff (Koc) Coeff | ng/kg)         Density         Porosity         Contatant         (Theta w)         Partitloning         Content in Conte | ng/kg)         Density         Porosity         Contitant         (Theta w)         Partitloning         Content in         Content in | ng/kg)         Density         Porosity         Contitant         (Theia w)         Partitioning Content in Coeff (Ks)         (K) critical MW-d Coeff (Ks)         (K | Op/En         Density         Powershity         Constitute         (Theia w)         Partitioning         Content in         Confirm         MAV-6         MAV-6         MAV-6         MAV-6         Confirm         MAV-6 | ng/kg)         Density         Porosity         Constant         (Theia w)         Partitioning         Content in Coeff (Ks)         (K) cm/y         cm/cm/y         cm/cm/y <th< td=""><td>ng/kg)         Density         Porcisity         Constant         (Theia w)         Partitioning Content in Coeff (Ks)         (N) cmyr         Cm/cmyr         (N) cmyr         Thing content in Coeff (Ks)         (N) cmyr         (R24)         (R25)         (R24)         (R25)</td><td>ng/kg)         Density         Pocosity         Contatant         (Thela w)         Paratiboning Content in Content in</td><td>πρίκη         Density         Porosity         Contatant         (Theia w)         Partitioning Content in Order in Confert in Co</td><td>ng/kg)         Density         Pocosity         Constitution         Confertion         Confertion<td>πράξη         Density         Pocusity         Constitut         (Theia w)         Density processing         Constitution         Constitution         Constitution         Constitution         Constitution         (May of many processing)         Constitution         (May of many processing)         (Upw) cmmy         Thickness         cmmy         (Theia s)         (H)         (H)         (H)         (H)         (May of many processing)         (Upw) cmmy         (Upw) cmmy         (Ipm) cmmy</td></td></th<> | ng/kg)         Density         Porcisity         Constant         (Theia w)         Partitioning Content in Coeff (Ks)         (N) cmyr         Cm/cmyr         (N) cmyr         Thing content in Coeff (Ks)         (N) cmyr         (R24)         (R25)         (R24)         (R25) | ng/kg)         Density         Pocosity         Contatant         (Thela w)         Paratiboning Content in | πρίκη         Density         Porosity         Contatant         (Theia w)         Partitioning Content in Order in Confert in Co | ng/kg)         Density         Pocosity         Constitution         Confertion         Confertion <td>πράξη         Density         Pocusity         Constitut         (Theia w)         Density processing         Constitution         Constitution         Constitution         Constitution         Constitution         (May of many processing)         Constitution         (May of many processing)         (Upw) cmmy         Thickness         cmmy         (Theia s)         (H)         (H)         (H)         (H)         (May of many processing)         (Upw) cmmy         (Upw) cmmy         (Ipm) cmmy</td> | πράξη         Density         Pocusity         Constitut         (Theia w)         Density processing         Constitution         Constitution         Constitution         Constitution         Constitution         (May of many processing)         Constitution         (May of many processing)         (Upw) cmmy         Thickness         cmmy         (Theia s)         (H)         (H)         (H)         (H)         (May of many processing)         (Upw) cmmy         (Upw) cmmy         (Ipm) cmmy |

nrg/kg « milkg/rans per kalogram cm/y = centimelens per year cm/cm = centimeler per centimeter cm/c = milkg/sms per Lter COC = contaminant of concern

Service of Collins Col

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# TACO (Equation R 26) Groundwater Ingestion Pathway Fate and Transport Calculations for BTEX Using Conservative Hydraulic Conductivity From Site Former Shell Service Station # 137147

14360 S. LaGrange Road Orland Park, Illinois

Cx=? With	current concentration	5.000	5.000	4.48	240	JNOFFICIAL COPY
L	Concentration	397	339	701	1.590	
Ca/Cs with u		0.01259	0.01475	0.15084	0.15081	
Degrdation	Constant (1/day)	0.0000	0.0009	02000	0000	
erf(2) [		1.000	1.000	0.448	┺.	
e-f(1)	<	1.00	1.000	0.355	9355	
erf-2		3.63%	3.8 4	13.0	707.107	
eri -1		25.215	26,450	0 808 342		V
Specific	Discharge - U (cm/day)	0.055674	0.055674	0.065874	╁	
Bulk	Density (g/cm3)	1.5	1.5	4	5.	
Porosity -	theta T (unidless)	0.43	0.43	0.47	25	Of Cours
Hyd	Gradient - i (cm/cm)	0.014	0.014	0.014	410.0	
Distance - x Apha(x) Apha(y) Apha(z) Sw (cm) Sd Hyd. Cond - Ks		1.71	1.71	1 14	F	The Clark's Office
PS (u	(C)	ଛ	-	200	200	
D) AS (C		-	7163		7163	'S
Alpha(	(Cus)	_	1.854	0.005	₩	
Alpha(y	(CIII)		12.361		0.033	Co
Alpha(x)	(cuu)	38.899	37.082	0.100	0.100	
Distance - x	(cm)	388	371	-	<b>,</b>	
Sample I D		MW-1	MW-2	MW-1	MW-2	
Compound		Benzene	Benzene	Ethylbenzene	Ethylbenzene	

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# TACO (Equation R 26) Migration to Groundwater (Leaching) Fate and Transport Calculations for BTEX Former Shell Service Station # 137147 14360 S. LaGrange Road Orland Park, Illinois

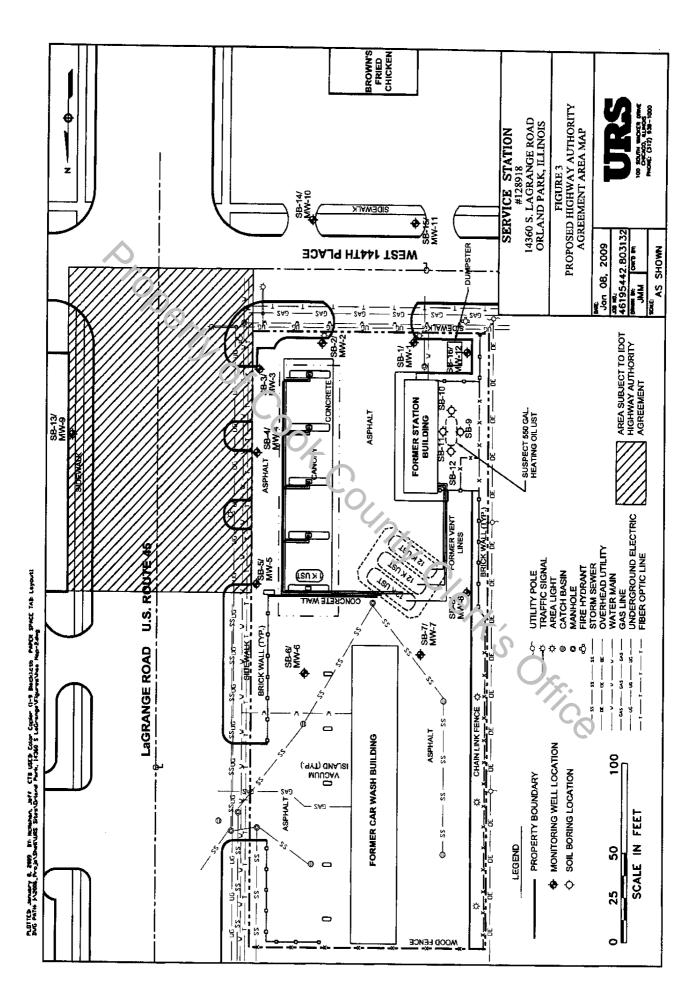
Concentration Csource ug/L	2,456.65	15,310.01	6,435.49	UNOFFICIAL COPY
Cx= (ppo at compliance point) = <b>R26</b>	5.000	5.000	5.000	
CX/CS = (H15)	0.00203530	0.00032658	0.00077694	
Degraation Constant (1/day)	0,000	0.0009	0.0009	
	0.9974	0.9642	0.9962	
err(1)	Н		1.0000	
	123		Н	
erf -1	-		12,0,21	
Specific Discharge - U (cm/day) = (R24)		_	0.059651	- 3- Ox
Bulk Density (g/cm3)	1.5	5.	1.5	
	58.9	58.9	58.9	
	0.002	0.002	0.002	TO
Porosity - fo theta T (unitless)	0.43	_	Н	
- <del>-</del>	0.015	0.015	0.015	SOF COUNTY CA
Hyd. Cond Ks (cm/day) MW-6	1.71		Н	Continue of the continue of th
Scanial Scania	500	200	200	
	7163			$O_{r}$
Alpha(z) Sw (cm)	3.324	-	-	
Alpha(y) (cm)	22.163	31.759	27.071	
Alpha(x) (cm)	66.489	<u> </u>	Щ	
Distance X A (cm)	r	Г	812 8	u liter
Sample I D	(-3 (8)	(-9 (4)	EX-11 (4)	Notes: Covcentrations are in micrograms per liter om = centimeters ordiday = centimeters gordiday = grams per cubic centimeters
Compound	Benzene EX	Ď	<u>a</u>	Notes:  Covcentrations are in microgram = centimeters ornday = centimeters ornday = centimeters per day Ukg = juriss per labgram ug/L = micrograms per liter grom3 = grams per cubic centi

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Chicago, Illinois 60606-2903

KLEIN, THORPE & JENKINS, LTD. Attorneys at Law

T312 984 6400 F312 984 6444

15010 S. Ravinia Avenue, Ste 10 Orland Park, Illinois 60462-5353 T 708 349 3888 F 708 349 1506

DD 312 984 6410 dgwalsh@ktilaw.com

www.ktjlaw.com

September 12, 2011

Via Federal Express Galina Georgiew, P.G. Project Geologist **URS** Corporation 100 S. Wac'ter Drive, Suite 500 Chicago, IL 50606

Re:

Highway Authority Agreement 14360 S. LaGrange Road

Orland Park, Illinois

Dear Ms. Georgiew:

Enclosed please find duplicate originals of the Highway Authority Agreement that has been approved by the Village of Orland Park regarding the above-captioned property.

Should you have any questions, please do not hesitate to call me.

Very truly yours

KLEIN THORPE AND JENKINS, LTD. Sitts Office

Dennis G. Walsh

Enc.

cc: John Robbins Environmental Program Manager Shell Oil Products US

> Frank M. Grenard, Esq. Johnson & Bell, Ltd.

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### HIGHWAY AUTHORITY AGREEMENT

This Agreement is entered into this day of Sept, 2011 pursuant to 35 III. Adm. Code 742.1020 by and between Equilon Enterprises LLC d/b/a Shell Oil Products US ("Owner/Operator") and (2) Village of Orland Park, Illinois ("Highway Authority"), collectively known as the "Parties."

WHEREAS, Equilon Enterprises LLC d/b/a Shell Oil Products LLC is or was the owner or operator of one or more leaking underground storage tanks presently or formerly located at 14360 South LaGrange Rd., Orland Park, IL (the "Site");

wHEREAS, as a result of one or more releases of contaminants at the above referenced Site "(the "Release"), soil and/or groundwater contamination at the Site exceeds the Ties I residential remediation objectives of 35 III. Adm. Code 742:

WHEREAS, the soil and/or groundwater contamination exceeding Tier I residential remediation objectives extends or may extend into the Highway Authority's right-of-way:

WHEREAS, the Owner/Operator or Property Owner is conducting corrective action in response to the Release;

WHEREAS, the Parties desire to prevent groundwater beneath the Highway Authority's right-of-way that exceeds Tier I remediation objectives from use as a supply of potable or domestic water and to limit access to soil within the right-of-way that exceeds Tier I residential remediation objectives so that human health and the environment are protected during and after any access;

### NOW, THEREFORE, the Parties agree as follows:

- 1. The recitals set forth above are incorporated by reference as if fully set forth herein
- 2. The Illinois Emergency Management Agency has assigned incident number 890852 to the Release.
- 3. Attached as Exhibit A is a scaled map(s) prepared by the Owner/Operator that shows the Site and surrounding area and delineates the current and estimated future extent of soil and groundwater contamination above the applicable Tier I residential remediation objectives as a result of the Release.
- 4. Attached as Exhibit B is a table(s) prepared by the Owner/Operator that lists each contaminant of concern that exceeds its Tier I residential remediation objective, its Tier I residential remediation objective and its concentrations within the zone where Tier I residential remediation objectives are exceeded.

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The locations of the concentrations listed in Exhibit B are identified on the map(s) in Exhibit A.

- 5. Attached as Exhibit C is a scaled man prepared by the Owner/Operator showing the area of the Highway Authority's right-of-way that is governed by this agreement ("Right-of-Way"). Because Exhibit C is not a surveyed plat, the Right-of-Way boundary may be an approximation of the actual Right-of-Way lines. Because the collection of samples within the Right-of-Way is not practical, the Parties stipulate that, based on modeling, soil and groundwater contamination exceeding Tier I residential remediation objectives does not and will not extend beyond the boundaries of the Right-of-Way.
- The Highway Authority stipulates it has jurisdiction over the Right-of-Way and gives it sole control over the use of the groundwater and access to the soil io and within or beneath the Right-of-Way.
- 7. The Highway Authority agrees to prohibit within the Right-of-Way all potable and domestic uses of groundwater exceeding Tier I residential remediation objectives.
- 8. The Highway Authority further agrees to limit access by itself and others to soil within the Right-of Way exceeding Tier I residential remediation objectives. Access shall be anowed only if human health (including worker safety) and the environment are protected during and after any access. The Highway Authority may construct, reconstruct, improve, repair, maintain and operate a highway upon the Right-or Way, or allow others to do the same by permit. In addition, the Highway Authority and others using or working in the Right-of-Way under permit have the right to remove soil or groundwater from the Right-of-Way and dispose of the same in accordance with applicable environmental laws and regulations. The Highway Authority agrees to issue all permits for work in the Right-of-Way, and make attexisting permits for work in the Right-of-Way, subject to the following or a substantially similar condition: As a condition of this permit the permittee shall request the office issuing this permit to identify sites in the Right-of-Way where a Highway Authority Agreement governs access to soil that exceeds the Tie I residential remediation objectives of 35 III. Adm. Code 742. The permittee shall take all measures necessary to protect human health (including worker safety) and the environment during and after any access to such soil.
- This agreement shall be referenced in the Illinois Environmental Protection Agency's (the "Agency") no further remediation determination issued for the Release.
- 10. The Agency shall be notified of any transfer of jurisdiction over the Right-of-Way at least 30 days prior to the date the transfer takes effect. This agreement shall be null and void coon the transfer unless the transferee agrees to be

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bound by this agreement as if the transferee were an original party to this agreement. The transferee's agreement to be bound by the terms of this agreement shall be memorialized at the time of transfer in a writing ("Rider") that references this Highway Authority Agreement and is signed by the Highway Authority, or subsequent transferor, and the transferee.

- 11. This agreement shall become effective on the date the Agency issues a no further remediation determination for the Release. It shall remain effective until the Right-of-Way is demonstrated to be suitable for unrestricted use and the Agency issues a new no further remediation determination to reflect there is no longer need for this agreement, or until the agreement is otherwise terminated or voided.
- i2 in addition to any other remedies that may be available, the Agency my bring suit to enforce the terms of this agreement or may, in its sole discretion, declare this agreement null and void if any of the Parties or any transferee violates any term of this agreement. The Parties or transferee shall be notified in writing of any such declaration.
- 13. This agreement s'iall be null and void if a court of competent jurisdiction strikes down any part or provision of the agreement.
- 14. This agreement supersedes any prior written or oral agreements or understandings between the Pratie: on the subject matter addressed herein. It may be altered, modified or amended only upon the written consent and agreement of the Parties.
- 15. Any notices or other correspondence regarding this agreement shall be sent to the Parties at following addresses:

Manager, Division of Remediation Management

Property Owner or Owner/Operator

Bureau of Land Illinois Environmental Protection Agency P.O. Box 19276 Springfield, IL 62974-9276

Equilon Enterprises LLC d/b/a Shell Oil Products US 20945 S. Wilmington Averue Carson CA 90810 ATTN: John Robbins Telefax: 713-423-0544

[Contact at Highway Authority] Village of Orland Park 14700 Ravinia. Ave. Orland Park, IL 60462 ATTN: Village Manager

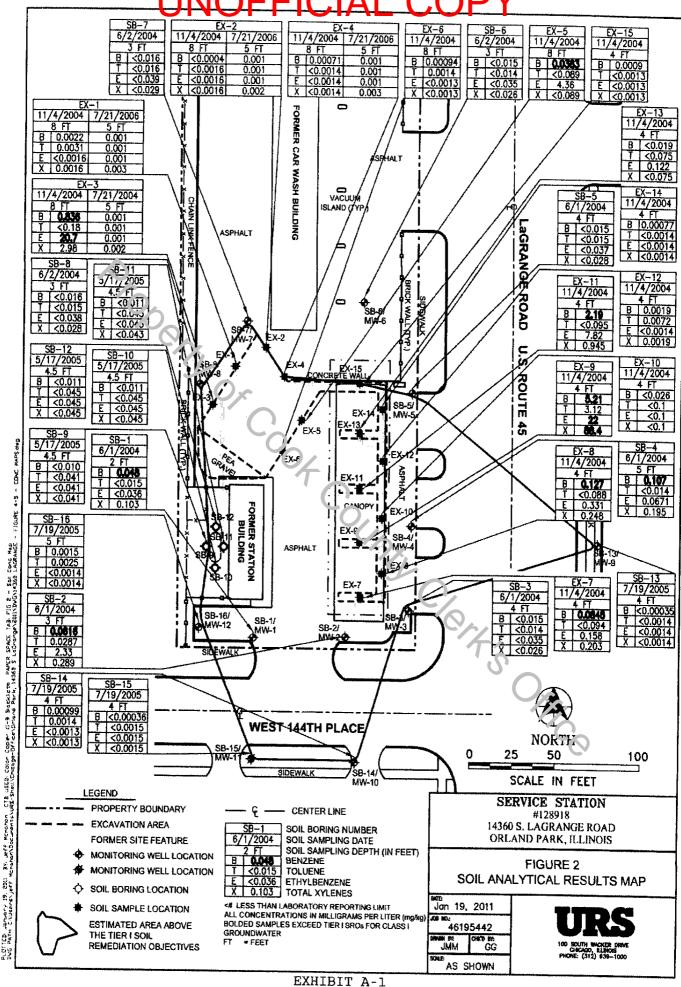
w/copy to Klein, Thorpe and Jenkins, Ltd. 15010 S Ravinia Ave # 10 Orland Park, IL 60462-5353 Attn: Dennis G. Walsh

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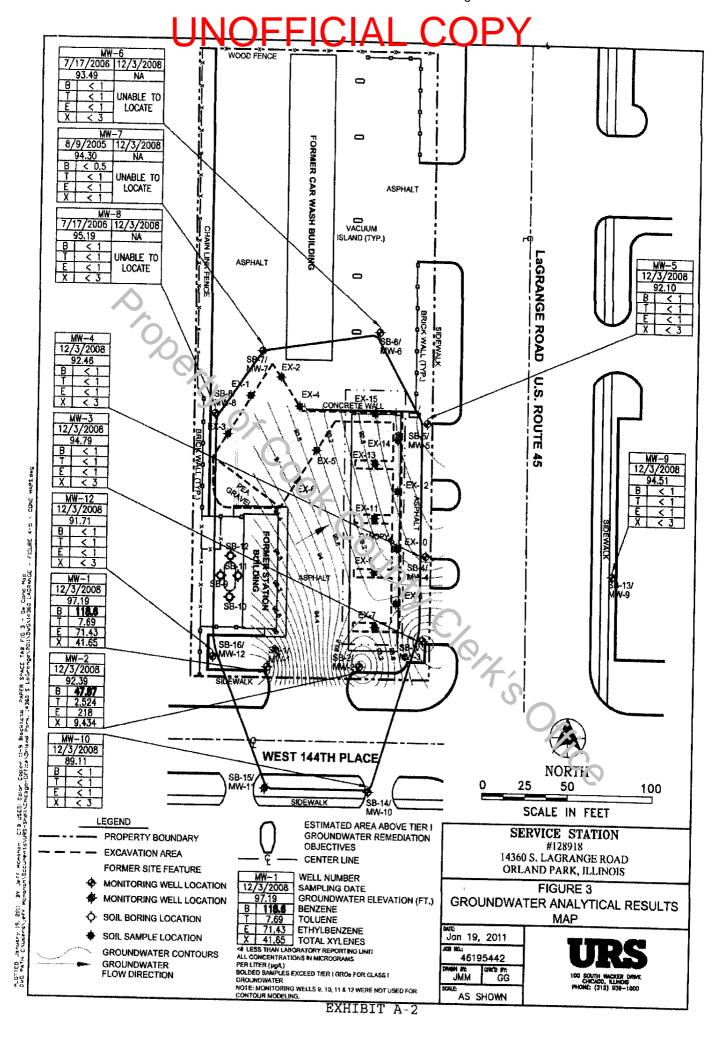
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IN WITNESS WHEREOF, the Parties have caused this agreement to be signed by their duly authorized representatives.

Date: <u>A - 4</u> , 2011	VILLAGE OF ORLAND PARK  By: Its:
	Owner/Operator
<b>4</b>	Owner/Operator
Date:, 2011	By: John Robbins Title: Environmental Program Manager
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	4
	0,
	950
	Tirle. Environmental Program Manager
	C



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Table 1

### Soil Analytical Results

Shell Service Station #137147 14360 South LaGrange Road Orland Park, Cook County, Illinois

		i i i i i i i i i i i i i i i i i i i	(\$210 A. O. O. O. S.)	COCs and Soil	Remediation Obje	ctives
Tier 1 1	Exposure Route		Benzene	Toluene	Ethylbenzene	Total Xylenes
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Soil Ingestion - Residentia	ıl		12	16,000	7800	160,000
Soil Ingestion - Constructi	on Worker		2,300	410,000	20,000	41,000
Inhalation - Residential	······································		0.8	650	400	320
Inhalation - Construction \	Worker	***************************************	2.2	42	58	5,6
SCGIER - Class I Groundy	water		0.03	12	13	150
SC (Et) - Class II Ground	ivater		0.17	29	19	150
Soil Sauration Limit			870	650	400	320
	Date	Sample Depth			704	020
iar p U	Sampled	(fect bgs)				
(3,3.1)	06/01/04	2	0.048	< 0.015	< 0.036	0.103
SB-2	06/01/04	3	0.0616	0.0287	2.33	0.289
SB-3	06/01/04	4	< 0.015	<0.014	<0.035	<0.026
SB-4	06/01/04	5	0.107	<0.014	0.0671	0.195
SB-5	06/01/04	4	< 0.015	<0.015	< 0.037	<0.028
SB-6	/6/03/04	3	< 0.015	<0.014	< 0.035	<0.026
SB-7	05/02/04	3	< 0.016	< 0.016	< 0.039	<0.029
SB-8	06/02/04	3	< 0.016	< 0.015	<0.038	<0.028
EX-1	11/04/04	8	0.0022	0.0031	<0.0016	0.0016
EX-2	11/04/04	8	<0.0004	< 0.0016	<0.0016	< 0.0016
EX-3	11/04/04		0.836	<0.18	20,7	2.98
EX-4	11/04/04	9	0.00071	<0.0014	< 0.0014	<0.0014
EX-5	11/04/04	8	0.0383	< 0.089	4.36	<0.089
EX-6	11/04/04	8	0.00094	0.0014	< 0.0013	< 0.0013
EX-7	11/04/04	4	0,0845	< 0.094	0.158	0.203
EX-8	11/04/04	4	0.1 )7	<0.088	0.331	0.248
EX-9	11/04/04	4	5.27	3,12	22	88.4
EX-10	11/04/04	4	<0.027	<0.1	<0.1	<0.1
EX-11	11/04/04	4	2.19	-0.095	7.82	0.945
EX-12	11/04/04	4	0.0019	C.0072	< 0.0014	0.0019
EX-13	11/04/04	4	< 0.019	√0,075	0.122	< 0.075
EX-14	11/04/04	4	0.00077	<0.00′4	< 0.0014	< 0.0014
EX-15	11/04/04	4	0.0009	<0.0013	<0.0013	<0.0013
SB-9	05/17/05	4.5	<0,010	<0.041	<0.041	< 0.041
SB-10	05/17/05	4.5	<0.011	< 0.045	0.07.5	<0.045
SB-11	05/17/05	4.5	<0.011	< 0.043	.043</td <td>&lt;0.043</td>	<0.043
SB-12	05/17/05	4.5	< 0.011	<0.045	<0.045	<0.045
SB-13	07/19/05	9	< 0.00035	<0.0014	<0.0014	<0.0014
SB-14	07/19/05	4	0.00099	0.0014	<0.0013	0.0013
SB-15	07/19/05	4	<0.00036	<0.0015	<0.0015	0.0015
SB-16	07/19/05	5	0.0015	0.0025	<0.0014	1.0.17114
EX-1	07/21/06	. 5	0.001	0.001	0.001	4,073
EX-2	07/21/06	5	0,001	0.001	0.001	0.002
EX-3	07/21/06	5	0.001	0.001	0.001	0.002
EX-4	07/21/06	5	0.001	0.001	0.001	0.003
B-1	07/21/06	9	0.002	0,002	0.002	0.004

### NOTES:

- 1) COCs = constituents of concern
- 2) MTBE = methyl tertiary butyl ether
- 3) mg/kg = milligrams per kilogram
- 4) bgs = below ground surface
- 5) ppm = parts per million
- 6) <0.065 = concentration less than the laboratory reporting limit
- 7) SCGIER = soil component of the groundwater ingestion exposure route
- 8) Bold = concentration above the Tier 1 soil remediation objective(s) listed in 35 Illinois Administrative Code Part 742

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Table 2

### Groundwater Elevations and Analytical Results

Shell Service Station #137147 14360 South LaGrange Road Orland Park, Cook County, Illinois

0808					COCs ar	nd Groundw	ater Remediati	on Objectives
		Tier 1 Exposi			Benzene	Toluene	Ethylbenzene	
CCCIED	Class I Groun	1	AMERICAN STATE		(µg/L)	(pg/L)	(µg/L)	(µg/L)
	Class II Groun			***************************************	5	1,000	700	10,000
COLK-	lass ii Grous	Referenced	Depth to	D Adversaries proper was	25	2,500	1,000	10,000
	Sample	Elevation	Groundwater	Groundwater Elevation				
Sample 110		(feet)	(feet below TOC)	(feet)	l			
MW-J	6/2/04	97.13	3.48	93.65	161	6,7	212	22.
MV [-]	9/9/04	97.13	3.92	93.21	397	12.6	212 388	25.1 5.1
MW 1	12/20/04	97.13	3.85	93.28	201	7.4	366	3.1 44,9
M/W-1	3/25/05	97.13	3.37	93.76	168	10.3	391	57.6
MW 1	5/20/05	97.13	2,53	94.60	343	16.7	781	40.5
MW-I	/9/05	100.85	3.70	97.15	317	15.5	383	59,6
MW-1 MW-1	7 :77/16	100.85	2.66	98.19	436	9.73	368	48.2
MW-2	6/2/J1	100.85	3.66 3.84	97.19	118.6	7.690	71.43	41.65
MW-2	9/9/04	97.24	5,87	93.40 91.37	322	14.4	1,590	66.7
MW-2	12/20/04	97.24	4.18	93,06	339 229	5.7 6.7	642	74.2
MW-2	3/25/05	17.2	4.76	92.48	45.5	1,8	500 52.3	50.2 7.9
MW-2	5/20/05	97.24	3.79	93,45	226	9.9	32.3 899	7,9 71.5
MW-2	8/9/05	97.24	5.03	92,21	277	11.5	1,590	50.1
MW-2	7/17/06	97.24	3.34	93.90	272	8.41	1,990	51,2
MW-2	12/3/08	97.24	4.85	92,39	47.87	2.524	218	9.434
MW-3 MW-3	6/2/04	97,19	17.13	84.00	40,1	0.99	31	23,8
MW-3	9/9/04 12/20/04	97.19	22/	91.47	11.1	<1	4.4	1.8
MW-3	3/25/05	97,19 97,19	5.26 0.40	91.93	3	<1	<1	<1
MW-3	5/20/05	97.19	2.27	16, <b>79</b> 94,92	-0.6	<1	<	<)
MW-3	8/9/05	97.19	5,70	91.19	<0.5 0.71	<) </td <td>&lt;1</td> <td>&lt;1</td>	<1	<1
MW-3	7/17/06	97.19	3.49	22.7%	<i< td=""><td>\ &lt; </td><td>&lt;† &lt;1</td><td>&lt;  &lt;3</td></i<>	\ <	<† <1	<  <3
MW-3	12/3/08	97.19	2,40	94,10	<1	٦	<1	<3
MW-4	6/2/04	96.97		11 11 7 4	) ~		Div	
MW-4	9/9/04	96,97	4.88	92.09	f.5	<1	<1	< ]
MW-4	12/20/04	96.97	4.90	92.07	27,3	<	<1	<i< td=""></i<>
MW-4 MW-4	3/25/05	96,97	4.81	92.16	3	et i	<1	<1
MW-4	5/20/04 8/9/05	96.97 96.97	4.57 5.03	92.40	9.9	</td <td>&lt;1</td> <td>&lt;1</td>	<1	<1
MW-4	7/17/06	96.97	3.03 4.43	91,94 92,54			<1	<1
MW-4	12/3/08	96.97	4.51	92.34 92.46	<1	(1) <1	<1 <1	<3
MW-5	6/2/04	96.56	3.41	93.15	<0.31	<0.14	<6.27	<3 <0.17
MW-5	9/9/04	96.56	4.46	92.10	⊴0.5	<	0.27	<1 <1
MW-5	12/20/04	96.56	4.14	92,42	<0.5	<i td=""  <=""><td></td><td>√(  </td></i>		√(
MW-5	3/25/05	96.56	3.57	92.99	<0.5	<1	4	<1
MW-5	5/20/05	96.56	3.40	93.16	<0.5	<1	<i td="" ↓<=""><td>/xi</td></i>	/xi
MW-5 MW-5	8/9/05	96,56	4.35	92.21	<0.5	</td <td>&lt;1 ]</td> <td>Û</td>	<1 ]	Û
MW-5	7/17/06 12/3/08	96.56 96.56	3.03	93,53	<	<1	</td <td>-3</td>	-3
MW-6	6/2/04	95.75	4.46 1.87	92.10 93.88	<	<)	<1	- 3
MW-6	9/9/04	95.75	3.17	93.88	<0.31 <0.5	<0.14	<0.27	<0.17
MW-6	12/20/04	95.75	3.18	92.57	<0.5	</td <td>&lt;1 &lt;1</td> <td>&lt;1 &lt;1</td>	<1 <1	<1 <1
MW-6	3/25/05	95.75					Full	~1
MW-6	5/20/05	95.75	2.50	93.25	< 0.5	<1	<1	<1
MW-6	8/9/05	95.75	3.90	91.85	<0.5	<1	<1	સં
MW-6	7/17/06	95,75	2.26	93.49	<1	<1	<1	<3
MW-6 MW-7	12/3/08	95.75	305				le to locate	
MW-7	6/2/04 9/9/04	96.15	2.91	93.24	<0.31	<0.14	<0.27	<0,17
MW-7	12/20/04	96.15 96.15	2.37 2.26	93.78	<0.5	<1	<]	<1
MW-7	3/25/05	96.15	1.00	93.89 95.15	< 0.5	<1	<1	<1
MW-7	5/20/05	96.15	0.88	95,13	<0.5 <0.5	<1 <1	<1	<
MW-7	8/9/05	96.15	1.85	94.30	<0.5	</td <td>&lt;1</td> <td><!--<br--><!--</td--></td>	<1	<br </td
MW-7	7/17/06	96.15					le to locate	
MW-7	12/3/08	96.15				Unab		

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Table 2

### Groundwater Elevations and Analytical Results

Shell Service Station #137147 14360 South LaGrange Road Orland Park, Cook County, Illinois

					COCs ar	d Grounds	ater Remediati	on Objectives
		Tier ( Exposu	re Routes		Benzene (µg/L)	Toluenc (µg/L)	Ethylbenzene (µg/L)	Total Xylene (ug/L)
	lass I Ground				5	1,000	700	10,000
GCGII:R - (	lass II Groun				25	2,500	1,000	10,000
Sample ID	Sample Date	Referenced Elevation (feet)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet)			<u></u>	,
MW-8	6/2/04	97.56	7.10	90.46	< 0.31	< 0.14	<0.27	<0.17
M⊁,-8	9/9/04	97.56	3.76	93.80	<0.5	<1	<1	<1
N1 W-8	12/20/04	97.56	3.37	94.19	<0.5	<1	<1	<1
M:N-8	3/25/05	97.56	1.90	95,66		sample brok	en upon arrival a	
MW 8	5/20/05	97.56	2.03	95.53	<0.5	<1	<1	<1
MW-8	/9/05	97.56	3.55	94,01	<0.5	<1	<1	<
MW-8	//·///16	97.56	2.37	95.19	<1	<1	<1	<3
MW-8	10/1/18	97.56	State State State			Una	ble to locate	
MW-9	8/9/J5	97.85	5,67	92.18	<0.5	<1	<1	<1
MW-9	7/17/06	97.85	1.93	95.92	<1	<)	<1	<3
MW-9	12/3/08	97.85	3.34	94.51	<1	<1	<1	<3
MW-10	8/9/05	(7.01)	7.85	89.15	<0.5	<1	<1	<1
MW-10	7/17/06	92.00	6.54	90.46	<1	<1	<1	<3
MW-10	12/3/08	97.00	7.89	89.11	<1	<1	<1	<3
MW-II	8/9/05	96.88	7.40	89,48	<0,5	<1	<1	<1
MW-11	7/17/06	96.88	53	91,35	<1	<1	< }	<3
MW-11	12/3/08	96,88				1	Destroyed	
MW-12	8/9/05	96.88	7.00	91.88	<0.5	<1	<1	<1
MW-12	7/17/06	96,88	4.81	92.07	<1	<1	<1	<3
MW-12	12/3/08	96.88	5.17	11.71	<1	<1	<1	<3
TMW-1	5/17/05		+ + + + + + + + + + + + + + + + + + +		<0,5	<1	<1	3.1

### Notes:

- 1) μg/L = micrograms per liter
- 2) Bold = concentrations above the Tier 1 groundwater remediation objective(s) distant in 35 Illinois Administrative Code Part 742 C/ortico
- 3) <1 = not detected above the laboratory reporting limit
- 4) MTBE = methyl tertiary butyl ether
- 5) GCGIER = groundwater component of the groundwater ingestion exposure route
- 6) TOC = top of casing

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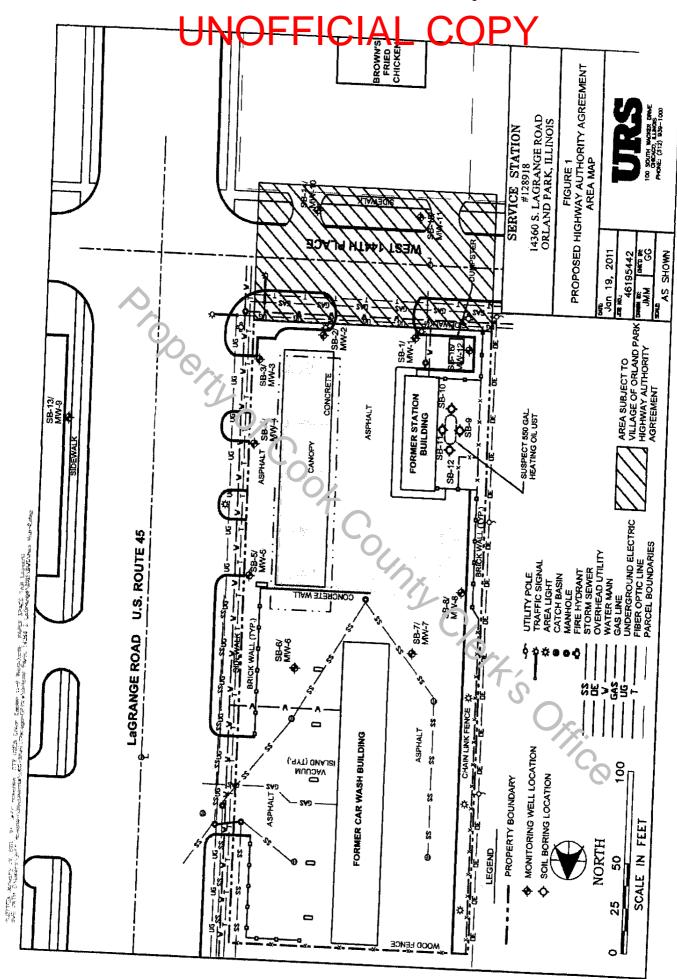


EXHIBIT C