

AECOM 314 429 0100 tel 1001 Highlands Plaza Drive West 314 429 0462 fax Suite 300 St. Louis, MO 63110-1337 www.aecom.com

October 12, 2016

Ms. Joyce L. Munie, PE Manager, Permit Section Illinois Environmental Protection Agency Bureau of Land 1021 North Grand Avenue East Springfield, Illinois 62794

Subject: Perched Groundwater Monitoring Piezometer Abandonment Certifications Roxana, Illinois 1191150002 – Madison County Equilon Enterprises LLC d/b/a Shell Oil Products US Log No. B-43R-CA-67

Dear Ms. Munie;

AECOM Technical Services Inc. (AECOM), on behalf of Shell Oil Products US (SOPUS), is submitting the Water Well Sealing Forms for the following four perched groundwater monitoring piezometers located in the Village of Roxana, Illinois, and two located within the Wood River Refinery (WRR). This information satisfies Condition 2 of Illinois Environmental Protection Agency (IEPA) approval letter for perched groundwater monitoring location abandonments, dated July 27, 2016, as well as Condition IV(d)(6) of the IEPA Hazardous Waste Management RCRA Post-Closure Permit, most recently modified July 29, 2015.

- ROST-5-PZ (Village of Roxana)
- ROST-7-PZ (Village of Roxana)
- ROST-10-PZ (Village of Roxana)
- ROST-21-PZ (Village of Roxana)
- P-60-12S (WRR)
- P-60-13S (WRR)

If you have any questions or require further information, please contact Bob Billman at <u>bob.billman@aecom.com</u> or 314-743-4108.

Sincerely, AECOM, on behalf of Shell Oil Products US

Weby Pot

Wendy Pennington, PE Project Engineer

bat B Gillman

Robert B. Billman Senior Project Manager

- Attachments: RCRA Facility Groundwater, Leachate and Gas Reporting Form **Figure 1** Perched Groundwater Monitoring Piezometer Locations Water Well Sealing Forms
- cc: Kevin Dyer, SOPUS Eric Petersen, Phillips 66 Project File Repositories (Roxana Public Library, Roxana Village Hall, Website)



Illinois Environmental Protection Agency

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

RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section an original, plus a minimum of two copies.

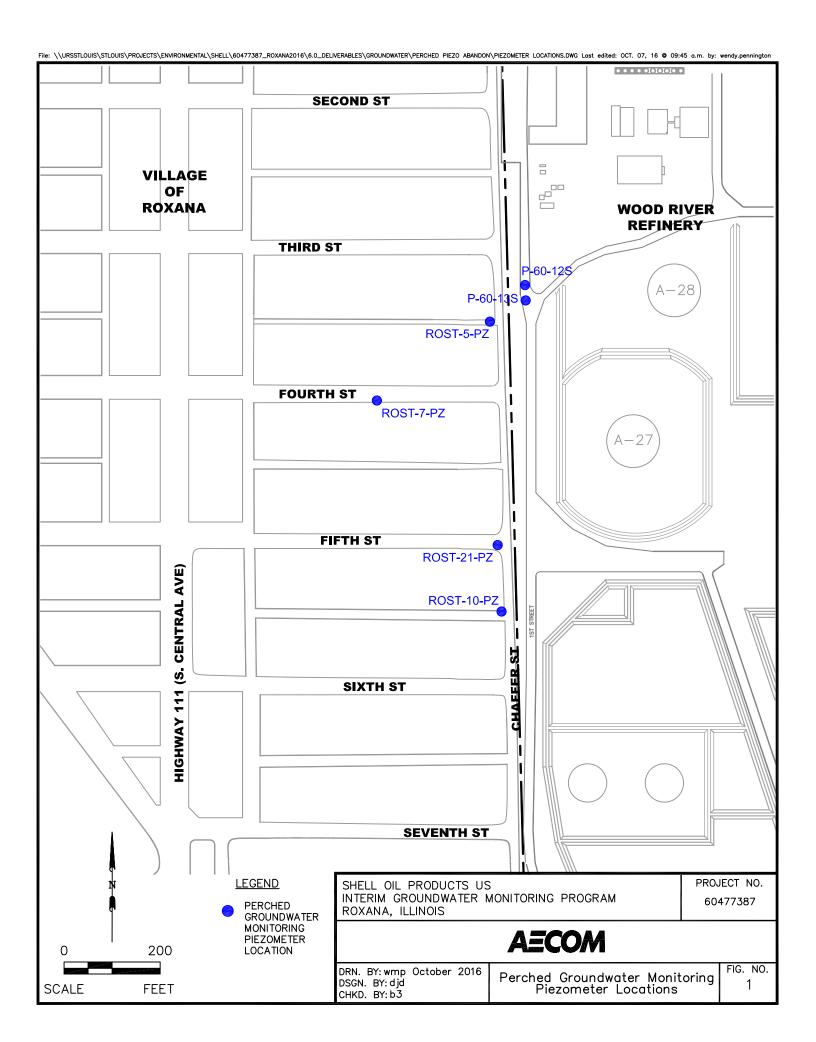
Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

| Facility Add | ress: | 900 South Centra | l Avenue, Ro | oxana, Illinois 62084 | |
|--------------|-------|------------------|--------------|-----------------------|--|
| Site ID #: 1 | 11911 | 50002 | Fed ID #: | ILD080012305 | |

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

| | LPC-160 Forms |
|--------------|--|
| | Groundwater |
| | Quarterly - Enter: 1, 2, 3, or 4 Quarterly - Enter: 1, 2, 3, or 4 |
| | Semi-Annual Semi-Annual |
| | Annual Annual |
| | Biennial Biennial |
| | Groundwater Data (without LPC-160 Forms) |
| | Quarterly - Enter: 1, 2, 3, or 4 Annual Semi-Annual Biennial |
| | Well Construction Information |
| | Well Construction Forms, Boring Logs and/or Abandonment Forms |
| | Well Survey Data (e.g., Stick-up Elevation Data) |
| | Notice of Statistically Significant Evidence of Groundwater Contamination |
| | (35 III. Adm. Code 724.198) |
| | Notice of Exceedence of Groundwater Concentration Limit (35 III. Adm. Code 724.199(h)) |
| | Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater |
| | (35 III. Adm. Code 724.199(i)) |
| | Gas Monitoring Reports |
| \checkmark | Other (identify) |
| | Water Well Sealing Forms for abandoned perched groundwater monitoring piezometers located in the |
| | Village of Roxana (4 located in the Village and 2 located in the Wood River Refinery). |



ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

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This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

| 1. | Ownership (N | lame of Controlling Party) | Shell Oil Produ | icts US | | | | | |
|----|---------------|--|--------------------|------------------------------|---------|-----------------------------------|--------------------------------|--------|------------|
| 2. | Well Location | : Well Site Address 900 |) South Central | Avenue | City | Roxana | | Zip | 62084 |
| | Lot # | Land I.D.# | | County Ma | adison | | Tow | nship | 5N |
| | Range 9V | V Section 34 | SE | Quarter of the | NE | Quarter | of the NE | | Quarter |
| | | | | 44.49 i e decimal part of | | ites by 60, e.g. la | titude 38 degre | | ليستعددهما |
| 3. | Year Drilled | | g Permit Number | | Г | ROST-5-PZ | | | |
| 5. | Type of Well | Monitoring | 6. Total Depth | (ft.) 24 | | Diameter (in.) | 1 | | |
| | | ear of obstruction Yes ugging (bentonite, neat ceme | nt or other materi | als) | | | | | |
| | Filled with | Neat Cement | From (ft.) | 24 | 4 1 | to (ft.) | 0.5 | | |
| | Kind of plug | Asphalt | From (ft.) | 0.9 | 5 | to (ft.) | 0 | | |
| | Filled with | | From (ft.) | | | to (ft.) | | | |
| | Kind of plug | | From (ft.) | | | to (ft.) | | | |
| | Filled with | | From (ft.) | | | to (ft.) | | | |
| | Kind of plug | | From (ft.) | | | to (ft.) | | | |
| | | CORD Upper 2 feet of casing ter well driller or other person | · · · · · | Department p | | e well was seal g well sealing | ed 9/15/2 | 016 | |
| | Name Jo | hn Thomas Marlo | | Complete Lic | ense Nu | mber 092-00 | 6857 | | |
| | Address | 411 Transpoint Dr | City Dupo | | State | Illinois | Zi | p Code | 62239 |
| | | equesting discolsure of information rmation is mandatory. This form | | | | | utlined under P IL 482-0631 | | |

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| 1. Ownership (Name of Controlling Party) | Shell Oil Products US | | |
|--|--|------------------------------|-------------------------------|
| 2. Well Location: Well Site Address 900 | South Central Avenue | City Roxana | Zip 62084 |
| Lot # Land I.D.# | County Mad | lison | Township 5N |
| Range 9W Section 34 | SE Quarter of the | NE Quarter of | the NE Quarter |
| GPS: North Degrees 38 Minutes 50 Report decimal minutes to minutes and second would be latitude 38 degrees 46 minutes 4.2 s | Seconds 42.89 De | | de 38 degrees 46.07 minutes N |
| | Permit Number (and date, if kno | | |
| 5. Type of Well Monitoring | 6. Total Depth (ft.) 30 | Diameter (in.) | 1 |
| Formation clear of obstruction Yes Detains of Plugging (bentonite, neat cementary) | nt or other materials) | | |
| Filled with Neat Cement | From (ft.) 30 | to (ft.) | 0.5 |
| Kind of plug Asphalt | From (ft.) 0.5 | to (ft.) | 0 |
| Filled with | From (ft.) | to (ft.) | |
| Kind of plug | From (ft.) | to (ft.) | |
| Filled with | From (ft.) | to (ft.) | |
| Kind of plug | From (ft.) | to (ft.) | |
| 9. CASING RECORD Upper 2 feet of casing 11. Licensed water well driller or other person Name John Thomas Marlo | L | | |
| Address 411 Transpoint Dr | City Dupo | State Illinois | Zip Code 62239 |
| This state agency is requesting discolsure of information Disclosure of this information is mandatory. This form | on that is necessary to accomplish the | e statutory purpose as outli | |



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| 1. Ownership (Name of Controlling Party) | Shell Oil Products U | 8 | | | |
|---|------------------------|--------------------|--------------------------------------|---------|--------------|
| 2. Well Location: Well Site Address 90 |) South Central Avenu | ue City Ro | oxana | Zip | 62084 |
| Lot # Land I.D.# | Coun | y Madison | Tow | nship | 5N |
| Range 9W Section 34 | NE Quarte | r of the SE | Quarter of the NE | | Quarter |
| GPS: North Degrees 38 Minutes 50 | Seconds 30.9 | West Degrees 90 | | | s 35.77 |
| Report decimal minutes to minutes and secon would be latitude 38 degrees 46 minutes 4.2 s | | | | | / minutes in |
| 3. Year Drilled 2009 4. Drillin | g Permit Number (and d | ate, if known ROS | ST-21-PZ | | |
| 5. Type of Well Monitoring | 6. Total Depth (ft.) | 20 Di | ameter (in.) | | |
| Formation clear of obstruction Yes Detains of Plugging (bentonite, neat ceme | nt or other materials) | | | | |
| Filled with Neat Cement | From (ft.) | 20 to (| ft.) 0.5 | | |
| Kind of plug Asphalt | From (ft.) | 0.5 to (| ft.) 0 | | |
| Filled with | From (ft.) | to (| ft.) | | |
| Kind of plug | From (ft.) | to (| ft.) | | |
| Filled with | From (ft.) | to (| ft.) | | |
| Kind of plug | From (ft.) | to (| ft.) | | |
| CASING RECORD Upper 2 feet of casing Licensed water well driller or other persor | · | | ell was sealed 9/15/2 ell sealing | .016 | |
| Name John Thomas Marlo | Comp | lete License Numb | er 092-006857 | |] |
| Address 411 Transpoint Dr | City Dupo | State II | linois Zi | ip Code | 62239 |
| This state agency is requesting discolsure of information Disclosure of this information is mandatory. This form | | | | | |

ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



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| 2. Well Location: Well Site Address 900 South Central Avenue City Roxana Zip 62084 Lot # Land I.D.# County Madison Township 5N Range 9W Section 34 NE Quarter of the SE Quarter of the NE Quarter GPS: North Degrees 38 Minutes 50 Seconds 38.37 Degrees 90 Minutes 4 Seconds 35.47 Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60. e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46.07 minutes N 3. Year Drilled 2009 4. Drilling Permit Number (and date, if known ROST-10-PZ 5. Type of Well Monitoring 6. Total Depth (ft.) 20 Diameter (in.) 1 7. Formation clear of obstruction Yes Yes S Detains of Plugging (bentonite, neat cement or other materials) Filled with Neat Cement From (ft.) 0.5 to (ft.) 0.5 Filled with Neat Cement From (ft.) 0.5 to (ft.) < |
|--|
| Range 9W Section 34 NE Quarter of the SE Quarter of the NE Quarter GPS: North Degrees 38 Minutes 50 Seconds 38.37 Degrees 90 Minutes 4 Seconds 35.47 Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60. e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second. 3. Year Drilled 2009 4. Drilling Permit Number (and date, if known ROST-10-PZ 5. Type of Well Monitoring 6. Total Depth (ft.) 20 Diameter (in.) 1 7. Formation clear of obstruction Yes Yes Seconds (0.07 x 60 = 4.2) to (ft.) 0.5 8. Detains of Plugging (bentonite, neat cement or other materials) From (ft.) 20 to (ft.) 0.5 Filled with Neat Cement From (ft.) 0.5 to (ft.) 0 1 Filled with From (ft.) 0.5 to (ft.) 0 1 1 1 Filled with From (ft.) to (ft.) 0 1 1 1 |
| GPS: North Degrees 38 Minutes 50 Seconds 38.37 Degrees 90 Minutes 4 Seconds 35.47 Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46.07 minutes N No |
| Degrees 38 Minutes 50 Seconds 38.37 Degrees 90 Minutes 4 Seconds 35.47 Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second. 3. Year Drilled 2009 4. Drilling Permit Number (and date, if known ROST-10-PZ 5. Type of Well Monitoring 6. Total Depth (ft.) 20 Diameter (in.) 1 7. Formation clear of obstruction Yes 8 Detains of Plugging (bentonite, neat cement or other materials) Filled with Neat Cement From (ft.) 20 to (ft.) 0.5 Kind of plug Asphalt From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) to (ft.) 0 1 1 Filled with From (ft.) to (ft.) 0 1 1 Filled with From (ft.) to (ft.) 0 1 1 |
| 5. Type of Well Monitoring 6. Total Depth (ft.) 20 Diameter (in.) 1 7. Formation clear of obstruction Yes 8. Detains of Plugging (bentonite, neat cement or other materials) Filled with Neat Cement From (ft.) 20 to (ft.) 0.5 Kind of plug Asphalt From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) to (ft.) 0 |
| 7. Formation clear of obstruction Yes 8. Detains of Plugging (bentonite, neat cement or other materials) Filled with Neat Cement From (ft.) 20 to (ft.) 0.5 Kind of plug Asphalt From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) Kind of plug From (ft.) to (ft.) 0 Filled with From (ft.) to (ft.) 0 |
| 8. Detains of Plugging (bentonite, neat cement or other materials) Filled with Neat Cement From (ft.) 20 to (ft.) 0.5 Kind of plug Asphalt From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) From (ft.) to (ft.) 0 Filled with From (ft.) to (ft.) 0 |
| Kind of plug Asphalt From (ft.) 0.5 to (ft.) 0 Filled with From (ft.) to (ft.) 0 Kind of plug From (ft.) to (ft.) 0 Filled with From (ft.) to (ft.) 0 Filled with From (ft.) to (ft.) 0 |
| Filled with From (ft.) to (ft.) Kind of plug From (ft.) to (ft.) Filled with From (ft.) to (ft.) |
| Kind of plug From (ft.) to (ft.) Filled with From (ft.) to (ft.) |
| Filled with From (ft.) to (ft.) |
| |
| Kind of plug |
| Kind of plug From (ft.) to (ft.) |
| 9. CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed 9/15/2016 11. Licensed water well driller or other person approved by the Department performing well sealing Name John Thomas Marlo Complete License Number 092-006857 |
| Address 411 Transpoint Dr City Dupo State Illinois Zip Code 62239 This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. |

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| 1. Ownership (Na | ame of Controlling Party) | Shell Oil Prod | ucts US | | | | | |
|--|--|------------------|------------------|-----------------|-----------------------------------|--------------------------------|--------|---------|
| 2. Well Location: | Well Site Address 900 | South Central | l Avenue |] City [| Roxana | | Zip | 62084 |
| Lot # | Land I.D.# | | County Ma | dison | , , , , , , , , , , , , , , , , , | Towr | nship | 5N |
| Range 9W | Section 35 | SW | Quarter of the | NW | Quarter | of the NW | | Quarter |
| GPS: North Degree Report decimal | es 38 Minutes 50 | Seconds | 45.31 [| Vest Degrees | | · | Second | L |
| | de 38 degrees 46 minutes 4.2 se | | | | | | | |
| 3. Year Drilled | 2009 4. Drilling | Permit Number | (and date, if kr | iown P | -60-12S | | | |
| 5. Type of Well | Monitoring | 6. Total Depth | n (ft.) 24 | | Diameter (in.) | 0.75 | | |
| Formation cleat Detains of Plug | ar of obstruction Yes gging (bentonite, neat cement | t or other mater | ials) | | | | | |
| Filled with | Neat Cement | From (ft.) | 20 |) to | o (ft.) | 0 | | |
| Kind of plug | | From (ft.) | | to | o (ft.) | | | |
| Filled with | | From (ft.) | | to | o (ft.) | | | |
| Kind of plug | | From (ft.) | | to | o (ft.) | | | |
| Filled with | | From (ft.) | | to | o (ft.) | | | |
| Kind of plug | | From (ft.) | | to | o (ft.) | | | |
| | ORD Upper 2 feet of casing a er well driller or other person a | | | | well was seale well sealing | ed 9/15/20 | 016 | |
| Name Joh | n Thomas Marlo | | Complete Lice | ense Nun | nber 092-006 | 5857 | |] |
| Address | 411 Transpoint Dr | City Dupo | | State | Illinois | Zip | o Code | 62239 |
| | questing discolsure of informatior mation is mandatory. This form h | | | | | tlined under Pi IL 482-0631 | | |



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| 1. Ownership (Name of Controlling Party) | Shell Oil Products US | | | | | | | |
|---|-----------------------------------|---|--|--|--|--|--|--|
| 2. Well Location; Well Site Address | 00 South Central Avenue | City Roxana | Zip 62084 | | | | | |
| Lot # Land I.D.# | County Ma | dison | Township 5N | | | | | |
| Range 9W Section 35 | SW Quarter of the | NW Quarter of | of the NW Quarter | | | | | |
| GPS: North Degrees 38 Minutes 50 | Seconds 45.03 | Vest Jegrees 90 Minut | | | | | | |
| Report decimal minutes to minutes and seco would be latitude 38 degrees 46 minutes 4.2 | | | | | | | | |
| 3. Year Drilled 2009 4. Drillin | ng Permit Number (and date, if kn | own P-60-13S | | | | | | |
| 5. Type of Well Monitoring | 6. Total Depth (ft.) 20 | Diameter (in.) | 0.75 | | | | | |
| Formation clear of obstruction Yes Detains of Plugging (bentonite, neat cement or other materials) | | | | | | | | |
| Filled with Neat Cement | From (ft.) 20 | to (ft.) | 0 | | | | | |
| Kind of plug | From (ft.) | to (ft.) | | | | | | |
| Filled with | From (ft.) | to (ft.) | | | | | | |
| Kind of plug | From (ft.) | to (ft.) | | | | | | |
| Filled with | From (ft.) | to (ft.) | | | | | | |
| Kind of plug NESTED PIEZO w/ 2nd | From (ft.) | to (ft.) | | | | | | |
| 9. CASING RECORD Upper 2 feet of casir 11. Licensed water well driller or other perso | | 0. Date well was seale rforming well sealing | ed 9/15/2016 | | | | | |
| Name John Thomas Marlo | Complete Lice | nse Number 092-006 | 857 | | | | | |
| Address 411 Transpoint Dr | City Dupo | State Illinois | Zip Code 62239 | | | | | |
| This state agency is requesting discolsure of informa Disclosure of this information is mandatory. This forr | | | llined under Public Act-0863. IL 482-0631- Revised 5/09 | | | | | |