

RECEIVED

MAY 10 2016

Superfund Section

Mr. Randy Bryant
Remedial Project Manager
USEPA Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Mr. Harry Zinn
Environmental Engineer
North Carolina Department of Environmental Quality
1646 Mail Service Center
Raleigh, NC 27699-1646

Arcadis G&M of North Carolina,
Inc.
801 Corporate Center Drive
Suite 300
Raleigh
North Carolina 27607
Tel 919 854 1282
Fax 919 854 5448
www.arcadis.com

Subject:

Well Abandonment Activities,
Pesticide Burial Area, Gurley Pesticide Burial Site, Selma, NC

Date:

May 6, 2016

Dear Mr. Bryant and Mr. Zinn:

The purpose of this letter is to document the abandonment of eight groundwater monitoring wells located at the Gurley Pesticide Burial Site in Selma, Johnston County, North Carolina (the Site). All monitoring wells were located in the former Pesticide Burial Area (PBA) and were abandoned on behalf of Cargill Incorporated's Dry Corn Ingredients business unit (Cargill).

The majority of wells (including PMW-1S, -3S, -5S, -5D, -6S, and -6D) were easily accessible and were abandoned with neat cement grout. Two additional wells (PWM-4S and -4D) were found following shallow excavations in the area and also abandoned with grout. Attempts were made to locate the remaining monitoring well in the PBA (PWM-2S); however, despite best efforts, this well could not be located and may have been destroyed during previous site development activities. Attached to this letter as **Appendix A**, please find a copy of the well abandonment records submitted to the North Carolina Department of Environmental Quality (NCDEQ) Division of Water Resources on May 6, 2016.

The abandonment of monitoring wells in the PBA concludes all agreed upon work to investigate and remediate impacts related to the disposal of pesticides at the Site. At this time the property owner has initiated the construction of a new building in the area which should be completed in the near term.

Contact:

William Anckner

Phone:

919.415.2255

Email:

william.anckner@arcadis.com

Our ref:

B0085707.1511

ARCADIS G&M of North Carolina, Inc.

NC Engineering License # C-1869

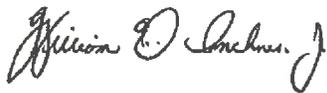
NC Surveying License # C-1869

Mr. Bryant & Mr. Zinn
May 6, 2016

Cargill appreciates the collective input of the United States Environmental Protection Agency and the NCDEQ regarding work related to this Site. If you have any further questions, please contact me or Susan Lahr (Cargill) at 952.742.5407.

Sincerely,

Arcadis G&M of North Carolina, Inc.



William Anckner
Principal

Copies:

Ms. Susan Lahr, Cargill

Enclosures:

Appendices

A Monitoring Well Abandonment Records, May 6, 2016



Appendix A

Monitoring Well Abandonment
Records, May 6, 2016

Division of Water Resources – Information Processing Unit
1617 Mail Service Center
Raleigh, NC 27699-1617

Subject:
Well Abandonment Records
Gurley Pesticide Burial Site
404 E Preston St, Selma, NC

Arcadis G&M of North Carolina,
Inc.
801 Corporate Center Drive
Suite 300
Raleigh
North Carolina 27607
Tel 919 854 1282
Fax 919 854 5448
www.arcadis.com

To Whom It May Concern:

Attached please find well abandonment records for eight wells at the above-referenced facility. Identification numbers for the wells abandoned are:

PMW-1S, PMW-3S, PMW-4S, PMW-4D, PMW-5S, PMW-5D, PMW-6S, and PMW-6D.

The locations of the abandoned wells are depicted on the enclosed Figure 1.

If you have any questions or comments on these well abandonment records, please let me know.

Sincerely,

Arcadis G&M of North Carolina, Inc.



William Anckner
Principal Engineer

Enclosures:

Figure 1 – Site Layout

Monitoring Well Abandonment Records

ENVIRONMENT

Date:
May 6, 2016

Contact:
William Anckner

Phone:
919.415.2255

Email:
William.anckner@arcadis.com

Our ref:
B0085707

ARCADIS G&M of North Carolina, Inc.

NC Engineering License # C-1869
NC Surveying License # C-1869

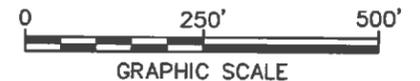
Location of Abandoned Wells

LEGEND:

-  MONITORING WELL LOCATION
-  SHALLOW ZONE PIEZOMETER LOCATION
-  STAFF GAUGE LOCATION
-  CENTERLINE (BAWDY SWAMP CREEK)
-  DITCH CENTERLINE
-  RAILROAD TRACKS
-  RIGHT-OF-WAY LINE
-  STORM DRAINAGE
-  TOP OF BANK
-  OVERHEAD POWER LINE
-  CITY SEWER LINE

NOTES:

1. BASE MAP PROVIDED BY TAYLOR WISEMAN & TAYLOR, CARY, NORTH CAROLINA REGISTERED LAND SURVEYOR, NOVEMBER 7, 2011.
2. BASE MAP REFERENCED FROM CONTESTOGA-ROVERS ASSOCIATES 1995 REPORT. LOCATIONS OF MONITORING WELLS INSTALLED BEFORE 2009 PROVIDED BY L. DENNIS LEE, P. A., PROFESSIONAL LAND SURVEYOR, NOVEMBER 2003.
3. 2009 INVESTIGATION LOCATIONS PROVIDED BY TAYLOR WISEMAN & TAYLOR, CARY, NORTH CAROLINA REGISTERED LAND SURVEYOR, AUGUST 21, 2009.
4. SURVEY LOCATION PROVIDED IN NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NAD 83 DATUM.



CARGILL INCORPORATED
GURLEY PESTICIDE BURIAL SITE
SELMA, NORTH CAROLINA

SITE PLAN

 **ARCADIS** Design & Consultancy
for natural and built assets

FIGURE
1

CITY: SYRACUSE, NY DIV: GROUP, EBC-INDVY DB: L: L. POSENAUER LVR: ONI-OFF-REF*
 G:\ENV\CAD\SYRACUSE\ACT\B00870715\100001\SITE\B00870715\B00870715.dwg LAYOUT: 2. SAVED: 1/8/2016 8:50 AM ACADVER: 19.1S (LMS TECH) PAGES: 10 PLOTTED: 1/8/2016 8:54 AM BY: POSENAUER, LISA
 XREFS: 85/07X01 85/07X00

WELL ABANDONMENT RECORD

I. Well Contractor Information:

Gary Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)
3367-A

NC Well Contractor Certification Number

Parratt Wolff, Inc.

Company Name

2. Well Construction Permit #: 50-0286-WM-0150

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 4/21/2016

5a. Well location:

NSEW, Inc - Cargill Wells

Facility/Owner Name

Facility ID# (if applicable)

404 East Preston St, Selma, NC 27576

Physical Address, City, and Zip

Johnston

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

647292.54 N 2213743.47 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment you can submit one form

6a. Well ID#: PMW-1S & PMW-3S to PMW-6S

6b. Total well depth: 20 to 24 (ft.)

6c. Borehole diameter: 8 (in.)

6d. Water level below ground surface: 9 (ft.)

6e. Outer casing length (if known): NA (ft.)

6f. Inner casing/tubing length (if known): 10 to 14 (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned. 5

7b. Approximate volume of water remaining in well(s): 2.0 (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

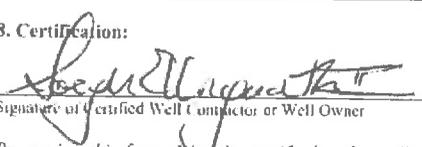
7f. For each material selected above, provide amount of materials used:

Neat cement - 60 lbs

7g. Provide a brief description of the abandonment procedure:

Neat cement was mixed with water and pumped through a tremie pipe to the bottom of each well to fill entire well column. Surface well completions were removed for off-site disposal.

8. Certification:


Signature of Certified Well Contractor or Well Owner

5/4/2016

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C 0100 or 2C 0200 Well Construction Standards and that a copy of this record has been provided to the well owner

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

1. Well Contractor Information:

Gary Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3367-A

NC Well Contractor Certification Number

Parratt Wolff, Inc.

Company Name

2. Well Construction Permit #: 50-0286-WM-0150

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 4/21/2016

5a. Well location:

NSEW, Inc - Cargill Wells

Facility/Owner Name

Facility ID# (if applicable)

404 East Preston St, Selma, NC 27576

Physical Address, City, and Zip

Johnston

County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

647292.54 N 2213743.47 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form

6a. Well ID#: PMW-4D, PMW-5D & PMW-6D

6b. Total well depth: 57 to 62 (ft.)

6c. Borehole diameter: 8 (in.)

6d. Water level below ground surface: 9 (ft.)

6e. Outer casing length (if known): NA (ft.)

6f. Inner casing/tubing length (if known): 47 to 52 (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: 3

7b. Approximate volume of water remaining in well(s): 9.0 (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

Neat cement - 100 lbs

7g. Provide a brief description of the abandonment procedure:

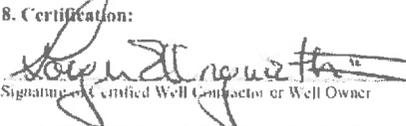
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5/4/2016

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