

PENDER COUNTY REQUEST FOR QUALIFICATIONS FOR PROFESSIONAL SERVICES RELATED TO THE BROWNSFIELD STATUS OF THE FORMER BASF/TEKADA PROPERTY OWNED BY PENDER COUNTY

January 13, 2021

Introduction

Pender County is requesting environmental support services on the Pender Commerce Park property. The former owner of the Park property is the responsible party engaged in a NCDEQ-mandated post-remediation groundwater monitoring program on part of the Park property. Pender County has a Brownfield Agreement with the NCDEQ. The groundwater monitoring program involves sampling groundwater from monitoring wells located on properties within the Pender Commerce Park. Pender County owns these parcels and would like to make them available for sale as new development sites without the presence of the monitoring wells. These monitoring wells are part of the NCDEQ monitoring program, however some are located in the potential footprint of future structures within undeveloped parcels of the Commerce Park. Therefore, Pender County is seeking to retain the services of an environmental consulting firm to work with the former property owner/responsible party and the NCDEQ to develop a strategy and solution to get the monitoring wells removed from the areas desired for the development of the subject parcels in the Commerce Park.

Background Information

Pender County currently owns 155 acres of land that was the former site of the BASF/Tekada manufacturing facility. The facility, part of BASF's Care Chemicals Division, manufactured and formulated vitamin C products for the dietary supplement industry. The property is generally located off US 421 South and is traversed by the New Hanover and Pender County line. As the property exists, approximately 84.47 acres of the total parcel is located within Pender, while the residual acreage (70.55 acres) is located within New Hanover County. More specifically the property address is 101 Vitamin Drive in Wilmington.

On March 31, 2009, BASF discontinued all operations at the facility. Upon subsequent environmental review of the site it was determined that residual deposits of monitored contaminants were present. Examples of potential contaminants included Acetone, Arsenic, Benzene, Cadmium, Mercury, Thallium, Chloroform, Zinc, and Chloride. Based on the presence of these contaminants the property was designated as a Brownfield site as determined by the Brownfield Property Reuse Act of 1997. Following the closure of the facility, BASF approached Pender County regarding the county's interest in purchasing the property, which cumulatively include approximately 400 acres.

In December 2010, Pender County purchased the BASF site for the purpose of creating an industrial park. A year later a Notice of Brownfield Property was filed in Pender County (PB 53/Page 19) and New Hanover County (MB 56/PG 210-213) outlining the County's desire to redevelop the property as well as the associated land use limitations due to the Brownfield status.

Since that time Pender has developed Pender Commerce Park (PCP) within the northern portion of the former BASF/Tekeda site. Currently, PCP consists of 245 acres of Class A industrial sites and is homes to Acme Smoked Fish, FedEx, Empire Distributors, Coastal Beverage, Polyhose (2021), an existing shell building, and another shell building planned for 1st quarter 2021. Due to

the success of PCP, Pender desires to expand the park to include the residual BASF property which contains several remaining buildings, 2 warehouses, a wastewater and water plant, and other ancillary structures. This residual property also contains numerous monitoring wells that were installed due to the property's Brownfield status. To date, all documented and monitored contaminants, except for Chloride, have been removed or have naturally attenuated from the property.

In regard to the Chloride contaminants present on the property, attenuation has occurred which has resulted in the plume migrating to the south. This attenuation has resulted in most of the remaining Chloride concentrations being isolated in the New Hanover County portions of the property and all of the concentrations that exceed the 2L Standard of 250 mg/l being within New Hanover County.

Scope of Services

The consulting firm will need to review the related NCDEQ files on the groundwater monitoring program being conducted by the former landowner sufficiently to gain an understanding of the groundwater chemistry trends, monitoring well locations and regulatory importance for each of the monitoring wells located in the parcels slated for development.

After the file reviews and becoming familiar with the details of the groundwater monitoring program, the consulting firm will meet with the lead regulatory agency NCDEQ IHSB in Raleigh either in-person or through on-line meetings to discuss the monitoring wells and work with the agency to develop a strategy that meets the requirements and needs of Pender County. The objective is to develop the parcels without the monitoring wells in the future development areas. The consulting firm will also need to have discussions as needed with the former landowner and their consultant on how to best facilitate the County's needs. The consulting firm hired by the County will engage and communicate with Pender County throughout the process. A report documenting the activities and results of the file reviews and meetings will then be prepared. This report will provide a detailed plan with associated cost and regulatory implications for closing the monitoring wells.

Proposal Requirements

Pursuant to GS 143-64.32, Pender County has exempted this project from the requirements of the Mini-Brooks Act in order to allow staff to require all responses to include a fee for the scope of services outlined above.

Online submittals may be emailed to cmcewen@pendercountync.gov. Hard copy submittals may be mailed or delivered to Chad McEwen, 805 South Walker Street, Burgaw, NC 28425.

Deadline for submittals is 5 pm on February 9, 2021. All statement of qualifications must include a fee as well as a schedule of rates and fees.

Attachments

Attachment A-Notice of Brownfield Property

Attachment B- Recent LUR Update

Attachment C- BASF Groundwater Monitoring Report March 2015

Attachment D- Maps of BASF Property







FOR REGISTRATION REGISTER OF DEEDS
NEW HANOVER COUNTY, NC
2011 DEC 16 03 48 55 PM
BK 5605 PG 2255-2288 FEE \$98 00

INSTRUMENT # 2011034815

Property Owner: Pender County

Recorded in Book _____, Page ___

Associated plat recorded in Plat Book 53, Page 19

NEW Hanvier - MS 56 76 210 - 213

NOTICE OF BROWNFIELDS PROPERTY

This documentary component of a Notice of Brownfields Property ("Notice"), as well as the plat component, have been filed this 15" day of December., 201 by Pender County (hereinafter "Prospective Developer").

The Notice concerns contaminated property.

A copy of this Notice certified by the North Carolina Department of Environment and Natural Resources (hereinafter "DENR") is required to be filed in the Register of Deeds' Office in the county or counties in which the land is located, pursuant to North Carolina General Statutes (hereinafter "NCGS"), Section (hereinafter "§") 130A-310.35(b).

This Notice is required by NCGS § 130A-310.35(a), in order to reduce or eliminate the danger to public health or the environment posed by environmental contamination at a property (hereinafter the "Brownfields Property") being addressed under the Brownfields Property Reuse Act of 1997, NCGS § 130A, Article 9, Part 5 (hereinafter the "Act").

Pursuant to NCGS § 130A-310.35(b), the Prospective Developer must file a certified copy of this Notice within 15 days of Prospective Developer's receipt of DENR's approval of the Notice or Prospective Developer's entry into the Brownfields Agreement required by the Act, whichever is later. Pursuant to NCGS § 130A-310.35(c), the copy of the Notice certified by DENR must be recorded in the grantor index under the names of the owners of the land and, if Prospective Developer is not the owner, also under Prospective Developer's name.

The Brownfields Property is located at 110 Vitamin Drive in New Hanover County and Pender County, North Carolina, and comprises approximately 400 acres. The site is the former location of a BASF Corporation facility that manufactured various vitamin products until closing in 2009. The Prospective Developer intends to redevelop the Brownfields Property as a commercial/industrial park

1

RETURNED TO



The Brownfields Agreement between Prospective Developer and DENR is attached hereto as Exhibit A. It sets forth the use that may be made of the Brownfields Property and the measures to be taken to protect public health and the environment, and is required by NCGS § 130A-310.32. The Brownfields Agreement's Exhibit 2 consists of one or more data tables reflecting the concentrations of and other information regarding the Property's regulated substances and contaminants.

Attached hereto as <u>Exhibit B</u> is a reduction, to 8 1/2" x 11", of the survey plat required by NCGS § 130A-310.35(a). It is a plat of areas designated by DENR that has been prepared and certified by a professional land surveyor and that meets the requirements of NCGS § 47-30. That plat contains the following information required by NCGS § 130A-310.35(a):

- (1) The location and dimensions of the areas of potential environmental concern with respect to permanently surveyed benchmarks.
- (2) The type, location and quantity of regulated substances and contaminants known to exist on the Brownfields Property.

Attached hereto as <u>Exhibit C</u> is a legal description of the Brownfields Property that would be sufficient as a description of the property in an instrument of conveyance.

LAND USE RESTRICTIONS

NCGS 130A-310.35(a) also requires that the Notice identify any restrictions on the current and future use of the Brownfields Property that are necessary or useful to maintain the level of protection appropriate for the designated current or future use of the Brownfields Property and that are designated in the Brownfields Agreement. The restrictions shall remain in force in perpetuity unless canceled by the Secretary of DENR (or its successor in function), or his/her designee, after the hazards have been eliminated, pursuant to NCGS § 130A-310.35(e). All references to DENR shall be understood to include any successor in function. The restrictions are hereby imposed on the Brownfields Property, and are as follows:

- 1. No use may be made of the Brownfields Property other than for a commercial/industrial park with related water/sewer infrastructure, and as part of a hiking trail (with a restroom facility and parking lot) along the former railroad right-of-way adjacent to the west side of U.S. 421. For purposes of this restriction, Commercial/Industrial Park Development is defined as a form of development characterized by a unified site designed for a variety of commercial and industrial uses, open space, buffers, and a mix of building types in which flexibility is given to the project planning by allowing for the specific land uses to be determined as the market need arises, so long as DENR does not determine that any of the other Land Use Restrictions are being violated and that any of the conditions referenced in N.C.G.S. 130A-310.33(a) and (c) are present.
- 2. Groundwater at the Brownfields Property may not be used for any purpose without the prior written approval of DENR.
- 3. Other than in connection with demolition/removal of certain structures and utilities by June 7, 2013 pursuant to section 12.1 of the Prospective Developer/BASF Corporation purchase agreement regarding the Brownfields Property, soil on the Brownfields Property may not be disturbed unless and until DENR states in



writing, in advance of the proposed disturbance, that the disturbance may proceed, if carried out along with any measures DENR deems necessary in connection with the proposed disturbance to avoid rendering the Brownfields Property unsuitable for the uses specified in restriction no.1 above or public health or the environment less than fully protected.

- 4. No building may be constructed on the Brownfields Property until:
- i. DENR determines in writing, based on submittals from the building's proponent, that the building's users, and public health and the environment, would not be at risk from the Brownfields Property's volatile contaminant plume; or
- ii. vapor mitigation measures approved in writing by DENR in advance are installed to the satisfaction of a professional engineer licensed in North Carolina, as evidenced by said engineer's seal, and photographs illustrating the installation and a brief narrative describing it are submitted to DENR and deemed satisfactory in writing by that agency.
- 5. None of the contaminants known to be present in the environmental media at the Brownfields Property, including those appearing on the plat component of this Notice, may be used or stored at the Brownfields Property without the prior written approval of DENR, except in de minimis amounts for cleaning and other routine housekeeping activities.
- 6. The Brownfields Property may not be used as a park or for sports of any kind, including, but not limited to, golf, football, soccer and baseball, without the prior written approval of DENR.
- 7. The Brownfields Property may not be used as a playground, or for child care centers, preschools or kindergarten through 12th grade schools.
 - 8. The Brownfields Property may not be used for kennels, private animal pens or horse-riding.
- 9. The owner of any portion of the Brownfields Property where any existing, or subsequently installed, DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR.
- 10. Neither DENR, nor any party conducting environmental assessment or remediation at the Brownfields Property at the direction of, or pursuant to a permit, order or agreement issued or entered into by DENR, may be denied access to the Brownfields Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Brownfields Property.
- 11. During January of each year after the year in which this Notice is recorded, the owner of any part of the Brownfields Property as of January 1st of that year shall submit a notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Pender County and New Hanover County, certifying that, as of said January 1st, the Notice of Brownfields Property containing these land use restrictions remains recorded at the Pender County and New Hanover County Register of Deeds offices and the land use restrictions are being complied with, and stating:



- i. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Brownfields Property during the previous calendar year; and
- ii. the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Brownfields Property during the previous calendar year.

For purposes of the land use restrictions set forth above, the DENR point of contact shall be the DENR official referenced in paragraph 32.a. of Exhibit A hereto, at the address stated therein.

ENFORCEMENT

The above land use restrictions shall be enforceable without regard to lack of privity of estate or contract, lack of benefit to particular land, or lack of any property interest in particular land. The land use restrictions shall be enforced by any owner of the Brownfields Property. The land use restrictions may also be enforced by DENR through the remedies provided in NCGS 130A, Article 1, Part 2 or by means of a civil action; by any unit of local government having jurisdiction over any part of the Brownfields Property; and by any person eligible for hability protection under the Brownfields Property Reuse Act who will lose hability protection if the restrictions are violated. Any attempt to cancel any or all of this Notice without the approval of the Secretary of DENR (or its successor in function), or his/her delegate, shall be subject to enforcement by DENR to the full extent of the law. Failure by any party required or authorized to enforce any of the above restrictions shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

FUTURE SALES, LEASES, CONVEYANCES AND TRANSFERS

When any portion of the Brownfields Property is sold, leased, conveyed or transferred, pursuant to NCGS § 130A-310.35(d) the deed or other instrument of transfer shall contain in the description section, in no smaller type than that used in the body of the deed or instrument, a statement that the Brownfields Property has been classified and, if appropriate, cleaned up as a brownfields property under the Brownfields Property Reuse Act.

Pender County

Rick Benton

By:

County Manager



	TH CAROLINA 10 COUNTY	
he or	I certify that the following person(s) personally appeared to she voluntarily signed the foregoing document for the purpose.	
Date:	Official Signature	of Notary
	NOTARY PUBLIC Notary's printed or Notary's printed or My commission ex	typed name, Notary Public pires 5 23 2016
APP	ROVAL AND CERTIFICATION OF NORTH CAROL AND NATURAL RESC	LINA DEPARTMENT OF ENVIRONMENT DURCES
	The foregoing Notice of Brownfields Property is hereby	approved and certified.
Ву	North Carolina Department of Environment and Natural Linda M. Culpepper Deputy Director, Division of Waste Management	December 5, 2011 Date
	*******	******
	<u>CERTIFICATION OF REGIST</u>	ERS OF DEEDS
certifi	The foregoing documentary component of the Notice of E ied to be duly recorded at the date and time, and in the Boo	
	Register of Deeds for Pender County	
Ву:		
	Name typed or printed Deputy/Assistant Register of Deeds	_ Date
	Register of Deeds for New Hanover County	
Ву:		
	Name typed or printed Deputy/Assistant Register of Deeds	_ Date

EXHIBIT A

B4003 P0196 12-15-2011 11 27 47 001 Faye Teachey Prevatte PROF Pender County, NC Register of Deeds page 6 of 33

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
IN THE MATTER OF Pender County

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UNDER THE AUTHORITY OF THE BROWNFIELDS PROPERTY REUSE ACT OF 1997, N.C.G.S. § 130A-310 30, et seq. Brownfields Project # 14031-10-71

BROWNFIELDS AGREEMENT re

Former BASF Facility

110 Vıtamin Drıve

Pender/New Hanover Counties

I <u>INTRODUCTION</u>

This Brownfields Agreement ("Agreement") is entered into by the North Carolina

Department of Environment and Natural Resources ("DENR") and Pender County (collectively
the "Parties") pursuant to the Brownfields Property Reuse Act of 1997, N C.G S § 130A-310.30,
et seq (the "Act")

Pender County is a duly constituted North Carolina local government. This Agreement concerns the county's plans to market certain acreage as an industrial park to spur economic development in the area. A map showing the location of the acreage is attached hereto as Exhibit 1

The Parties agree to undertake all actions required by the terms and conditions of this Agreement. The purpose of this Agreement is to settle and resolve, subject to reservations and limitations contained in Section VIII (Certification), Section IX (DENR's Covenant Not to Sue and Reservation of Rights) and Section X (Prospective Developer's Covenant Not to Sue), the potential liability of Pender County for contaminants at the property which is the subject of this Agreement

The Parties agree that Pender County's entry into this Agreement, and the actions undertaken by Pender County in accordance with the Agreement, do not constitute an admission



of any hability by Pender County

The resolution of this potential liability, in exchange for the benefit Pender County shall provide to DENR, is in the public interest.

II <u>DEFINITIONS</u>

Unless otherwise expressly provided herein, terms used in this Agreement which are defined in the Act or elsewhere in N.C G.S 130A, Article 9 shall have the meaning assigned to them in those statutory provisions, including any amendments thereto

- 1 "Property" shall mean the Brownfields Property which is the subject of this Agreement, and which is depicted in Exhibit 1 to the Agreement.
 - 2. "Prospective Developer" shall mean Pender County.

III STATEMENT OF FACTS

- 3 The Property comprises approximately 400 acres at the northwest corner of New Hanover County and southwest corner of Pender County, and consists of pine trees, swamp, and industrial and commercial property and facilities formally operated by BASF Corporation ("BASF"). Prospective Developer has committed itself to redevelopment of it for no uses other than as a commercial/industrial park.
- 4. The Property is bordered to the north by undeveloped property owned by Corbett Industries Inc. and property being developed by Pender County; to the south by undeveloped property owned by BASF; to the east by U.S. Highway 421, beyond which lie undeveloped properties owned by Phillips Leasing Systems LLC and Pender County, and to the west by the Cape Fear River
 - 5 Prospective Developer obtained or commissioned the following reports, referred to

heremafter as the "Environmental Reports," regarding the Property

Title	Prepared by	Date of Report
Remedial Action Plan	MACTEC	March 23, 2010
Remedial Investigation Work Plan	MACTEC	December 10, 2009
Annual Report of Groundwater for 2008	Mactec Engineering and Consulting. Inc. ("MACTEC")	May 13, 2009
Annual Report of Groundwater Remediation for 2006	MACTEC	December 28, 2006
Annual Report of Groundwater Remediation for 2004	MACTEC	July 7, 2005
Report of Annual GroundwaterMonitoring for 2000 & Additional Assessment Activities	Law Engineering and Environmental Services, Inc. ("LAW")	April 9, 2001
Environmental Baseline Assessment	LAW	January 12, 2001
Review of Hydrogeologic Cross Sections, Pee Dee Formation Review	LAW	September 20, 2000
Annual Report of Groundwater Remediation for 1997	LAW	April 7, 1998
Site Assessment and Corrective Action Plan for Main Plant Area	ENSR Consulting and Engineering	August 12, 1996
Interim Corrective Action Plan	LAW	September 14, 1995
Report of Groundwater Assessment	LAW	August 15, 1995

- 6 For purposes of this Agreement, DENR relies on the following representations by Prospective Developer as to use and ownership of the Property:
- a. Takeda Vitamın and Food USA, Inc purchased and developed some of the Property in the early 1980s for the manufacture of various vitamin products;
 - b. Takeda Vıtamin and Food USA, Inc was merged into BASF in 2001, the



facility continued manufacturing vitamin products under the BASF name.

- c. BASF ceased operations at and closed the facility in March 2009.
- d. Prospective Developer purchased the Property in December 2010.
- 7. Pertinent environmental information regarding the Property includes the following:
- a. Groundwater at the Property is contaminated with volatile organic compounds (chlorinated solvents and petroleum-based compounds), and inorganics such as metals, arsenic and chloride, due to releases that occurred during vitamin production. The volatility of the compounds creates a risk that contaminated vapor will enter any buildings constructed on the Property.
 - b. Soil at the site contains arsenic, thallium and mercury.
- b. Data tables reflecting the concentrations of and other information regarding the Property's regulated substances and contaminants appear in Exhibit 2 to this Agreement
- 8. For purposes of this Agreement DENR relies on Prospective Developer's representations that Prospective Developer's involvement with the Property has been limited to obtaining or commissioning the Environmental Reports, preparing and submitting to DENR a Brownfields Property Application dated September 21, 2010, and purchasing the Property on December 3, 2010. 9 Prospective Developer has provided DENR with information, or sworn certifications regarding that information on which DENR relies for purposes of this Agreement, sufficient to demonstrate that:
- a Prospective Developer and any parent, subsidiary, or other affiliate has substantially complied with federal and state laws, regulations and rules for protection of the environment, and with the other agreements and requirements cited at N.C G.S § 130A-

310.32(a)(1);



- b. as a result of the implementation of this Agreement, the Property will be suitable for the uses specified in the Agreement while fully protecting public health and the environment;
- c. Prospective Developer's reuse of the Property will produce a public benefit commensurate with the liability protection provided Prospective Developer hereunder;
- d. Prospective Developer has or can obtain the financial, managerial and technical means to fully implement this Agreement and assure the safe use of the Property, and
- e. Prospective Developer has complied with all applicable procedural requirements
- 10. Prospective Developer has paid the \$2,000 fee to seek a brownfields agreement required by N.C.G.S. § 130A-310 39(a)(1), and shall make a payment to DENR of \$3,500 at the time Prospective Developer and DENR enter into this Agreement, defined for this purpose as occurring no later than the last day of the public comment period related to this Agreement. The Parties agree that the second payment shall constitute, within the meaning of N.C.G.S. § 130A-310.39(a)(2), the full cost to DENR and the North Carolina Department of Justice of all activities related to this Agreement.

IV BENEFIT TO COMMUNITY

- 11. The redevelopment of the Property proposed herein would provide the following public benefits:
 - a. a return to productive use of the Property
 - b. a spur to additional community redevelopment, through improved



neighborhood appearance and otherwise

- c tax revenue for affected jurisdictions;
- d. additional industrial space for the area, and
- e. "smart growth" through use of land in an already developed area, which avoids development of land beyond the urban fringe ("greenfields").

V. WORK TO BE PERFORMED

- 12. Based on the information in the Environmental Reports, and subject to imposition of and compliance with the land use restrictions set forth below, and subject to Section IX of this Agreement (DENR's Covenant Not to Sue and Reservation of Rights), DENR is not requiring Prospective Developer to perform any active remediation at the Property.
- 13. By way of the Notice of Brownfields Property referenced below in paragraph 18, Prospective Developer shall impose the following land use restrictions under the Act, running with the land, to make the Property suitable for the uses specified in this Agreement while fully protecting public health and the environment. All references to DENR shall be understood to include any successor in function
- a. No use may be made of the Property other than for a commercial/industrial park with related water/sewer infrastructure, and as part of a hiking trail (with a restroom facility and parking lot) along the former railroad right-of-way adjacent to the west side of U.S. 421. For purposes of this restriction, Commercial/Industrial Park Development is defined as a form of development characterized by a unified site designed for a variety of commercial and industrial uses, open space, buffers, and a mix of building types in which flexibility is given to the project planning by allowing for the specific land uses to be determined as the market need arises, so



long as DENR does not determine that any of the other Land Use Restrictions are being violated and that any of the conditions referenced in N C G S 130A-310.33(a) and (c) are present

- b. Groundwater at the Property may not be used for any purpose without the prior written approval of DENR.
- c. Other than in connection with demolition/removal of certain structures and utilities by June 7, 2013 pursuant to section 12.1 of the Prospective Developer/BASF Corporation purchase agreement regarding the Property, soil on the Property may not be disturbed unless and until DENR states in writing, in advance of the proposed disturbance, that the disturbance may proceed, if carried out along with any measures DENR deems necessary in connection with the proposed disturbance to avoid rendering the Property unsuitable for the uses specified in subparagraph 13.a. above or public health or the environment less than fully protected.
 - d No building may be constructed on the Property until:
- DENR determines in writing, based on submittals from the building's proponent, that the building's users, and public health and the environment, would not be at risk from the Property's volatile contaminant plume; or
- in vapor mitigation measures approved in writing by DENR in advance are installed to the satisfaction of a professional engineer licensed in North Carolina, as evidenced by said engineer's seal, and photographs illustrating the installation and a brief narrative describing it are submitted to DENR and deemed satisfactory in writing by that agency.
- e. None of the contaminants known to be present in the environmental media at the Property, including those appearing on the plat component of the Notice referenced in



paragraph 19 below, may be used or stored at the Property without the prior written approval of DENR, except in *de minimus* amounts for cleaning and other routine housekeeping activities.

- f. The Property may not be used as a park or for sports of any kind, including, but not limited to, golf, football, soccer and baseball, without the prior written approval of DENR
- g The Property may not be used as a playground, or for child care centers, preschools or kindergarten through 12th grade schools.
 - h The Property may not be used for kennels, private animal pens or horse-riding
- 1 The owner of any portion of the Property where any existing, or subsequently installed, DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR.
- j Neither DENR, nor any party conducting environmental assessment or remediation at the Property at the direction of, or pursuant to a permit, order or agreement issued or entered into by DENR, may be denied access to the Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Property.
- k. During January of each year after the year in which the Notice referenced below in paragraph 18 is recorded, the owner of any part of the Property as of January 1st of that year shall submit a notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Pender County and New Hanover County, certifying that, as of said January 1st, the Notice of Brownfields Property containing these land use restrictions remains recorded at the Pender County and New Hanover County Register of Deeds offices and that the land use restrictions are being complied with, and stating:



i. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Property during the previous calendar year; and

ii the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Property during the previous calendar year.

- 14. The desired result of the above-referenced land use restrictions is to make the Property suitable for the uses specified in the Agreement while fully protecting public health and the environment.
- 15. The guidelines, including parameters, principles and policies within which the desired results are to be accomplished are, as to field procedures and laboratory testing, the Guidelines of the Inactive Hazardous Sites Branch of DENR's Superfund Section, as embodied in their most current version
- 16 The consequences of achieving or not achieving the desired results will be that the uses to which the Property is put are or are not suitable for the Property while fully protecting public health and the environment

VI. ACCESS/NOTICE TO SUCCESSORS IN INTEREST

17 In addition to providing access to the Property pursuant to subparagraph 13.j above, Prospective Developer shall provide DENR, its authorized officers, employees, representatives, and all other persons performing response actions under DENR oversight, access at all reasonable times to other property controlled by Prospective Developer in connection with the performance or oversight of any response actions at the Property under applicable law. While



Prospective Developer owns the Property, DENR shall provide reasonable notice to Prospective Developer of the timing of any response actions to be undertaken by or under the oversight of DENR at the Property. Notwithstanding any provision of this Agreement, DENR retains all of its authorities and rights, including enforcement authorities related thereto, under the Act and any other applicable statute or regulation, including any amendments thereto

- 18. DENR has approved, pursuant to N.C.G.S § 130A-310 35, a Notice of Brownfields
 Property for the Property containing, <u>inter alia</u>, the land use restrictions set forth in Section V
 (Work to Be Performed) of this Agreement and a survey plat of the Property Pursuant to
 N.C.G S § 130A-310.35(b), within 15 days of the effective date of this Agreement Prospective
 Developer shall file the Notice of Brownfields Property in the Pender County and New Hanover
 County, North Carolina register of deeds' offices. Within three (3) days thereafter, Prospective
 Developer shall furnish DENR a copy of the documentary component of the Notice containing a
 certification by the register of deeds as to the Book and Page numbers where both the
 documentary and plat components of the Notice are recorded, and a copy of the plat with
 notations indicating its recordation.
- 19. This Agreement shall be attached as Exhibit A to the Notice of Brownfields

 Property. Subsequent to recordation of said Notice, any deed or other instrument conveying an interest in the Property shall contain the following notice: "The property which is the subject of this instrument is subject to the Brownfields Agreement attached as Exhibit A to the Notice of Brownfields Property recorded in the Penrez County land records, Book 53, Page 19 "

 A copy of any such instrument shall be sent to the persons listed in Section XV (Notices and Submissions), though financial figures related to the conveyance may be redacted



20. The Prospective Developer shall ensure that a copy of this Agreement is provided to any current lessee or sublessee on the Property as of the effective date of this Agreement and shall ensure that any subsequent leases, subleases, assignments or transfers of the Property or an interest in the Property are consistent with this Section (Access/Notice To Successors In Interest), Section V (Work to be Performed) and Section XI (Parties Bound & Transfer/Assignment Notice) of this Agreement

VII. <u>DUE CARE/COOPERATION</u>

21. The Prospective Developer shall exercise due care at the Property with respect to regulated substances and shall comply with all applicable local, State, and federal laws and regulations. The Prospective Developer agrees to cooperate fully with any remediation of the Property by DENR and further agrees not to interfere with any such remediation. In the event the Prospective Developer becomes aware of any action or occurrence which causes or threatens a release of contaminants at or from the Property, the Prospective Developer shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release, and shall, in addition to complying with any applicable notification requirements under N C.G S 130A-310.1 and 143-215 85, and Section 103 of CERCLA, 42 U S C. § 9603, or any other law, immediately notify DENR of such release or threatened release.

VIII. CERTIFICATION

22. By entering into this agreement, the Prospective Developer certifies that, without DENR approval, it will make no use of the Property other than that committed to in the Brownfields Letter of Intent dated September 21, 2010 by which it applied for this Agreement.

That use is as a commercial/industrial park Prospective Developer also certifies that to the best



of its knowledge and belief it has fully and accurately disclosed to DENR all information known to Prospective Developer and all information in the possession or control of its officers, directors, employees, contractors and agents which relates in any way to any regulated substances at the Property and to its qualification for this Agreement, including the requirement that it not have caused or contributed to the contamination at the Property.

IX DENR'S COVENANT NOT TO SUE AND RESERVATION OF RIGHTS

- 23. Unless any of the following apply, Prospective Developer shall not be liable to DENR, and DENR covenants not to sue Prospective Developer, for remediation of the Property except as specified in this Agreement.
 - a The Prospective Developer fails to comply with this Agreement.
- b. The activities conducted on the Property by or under the control or direction of the Prospective Developer increase the risk of harm to public health or the environment, in which case Prospective Developer shall be liable for remediation of the areas of the Property, remediation of which is required by this Agreement, to the extent necessary to eliminate such risk of harm to public health or the environment
- c A land use restriction set out in the Notice of Brownfields Property required under N.C.G S 130A-310.35 is violated while the Prospective Developer owns the Property, in which case the Prospective Developer shall be responsible for remediation of the Property to unrestricted use standards.
- d. The Prospective Developer knowingly or recklessly provided false information that formed a basis for this Agreement or knowingly or recklessly offers false information to demonstrate compliance with this Agreement or fails to disclose relevant information about

- e. New information indicates the existence of previously unreported contaminants or an area of previously unreported contamination on or associated with the Property that has not been remediated to unrestricted use standards, unless this Agreement is amended to include any previously unreported contaminants and any additional areas of contamination. If this Agreement sets maximum concentrations for contaminants, and new information indicates the existence of previously unreported areas of these contaminants, further remediation shall be required only if the areas of previously unreported contaminants raise the risk of the contamination to public health or the environment to a level less protective of public health and the environment than that required by this Agreement
- f. The level of risk to public health or the environment from contaminants is unacceptable at or in the vicinity of the Property due to changes in exposure conditions, including (i) a change in land use that increases the probability of exposure to contaminants at or in the vicinity of the Property or (ii) the failure of remediation to mitigate risks to the extent required to make the Property fully protective of public health and the environment as planned in this Agreement.
- g The Department obtains new information about a contaminant associated with the Property or exposures at or around the Property that raises the risk to public health or the environment associated with the Property beyond an acceptable range and in a manner or to a degree not anticipated in this Agreement
- h. The Prospective Developer fails to file a timely and proper Notice of Brownfields Property under N C G.S. 130A-310.35



- 24 Except as may be provided herein, DENR reserves its rights against Prospective Developer as to liabilities beyond the scope of the Act, including those regarding petroleum underground storage tanks pursuant to Part 2A, Article 21A of Chapter 143 of the General Statutes.
- 25. This Agreement does not waive any applicable requirement to obtain a permit, license or certification, or to comply with any and all other applicable law, including the North Carolina Environmental Policy Act, N.C.G.S. § 113A-1, et seq.

X PROSPECTIVE DEVELOPER'S COVENANT NOT TO SUE

26. In consideration of DENR's Covenant Not To Sue in Section IX of this Agreement and in recognition of the absolute State immunity provided in N C.G.S. § 130A-310.37(b), the Prospective Developer hereby covenants not to sue and not to assert any claims or causes of action against DENR, its authorized officers, employees, or representatives with respect to any action implementing the Act, including negotiating, entering, monitoring or enforcing this Agreement or the above-referenced Notice of Brownfields Property.

XI. PARTIES BOUND

27 This Agreement shall apply to and be binding upon DENR, and on the Prospective Developer, its officers, directors, employees, and agents Each Party's signatory to this Agreement represents that she or he is fully authorized to enter into the terms and conditions of this Agreement and to legally bind the Party for whom she or he signs.

XII. DISCLAIMER

28. This Agreement in no way constitutes a finding by DENR as to the risks to public health and the environment which may be posed by regulated substances at the Property, a



representation by DENR that the Property 1s fit for any particular purpose, nor a waiver of Prospective Developer's duty to seek applicable permits or of the provisions of N C.G S. § 130A-310 37

29. Except for the Land Use Restrictions set forth in paragraph 13 above and N.C G.S. § 130A-310 33(a)(1)-(5)'s provision of the Act's liability protection to certain persons to the same extent as to a prospective developer, no rights, benefits or obligations conferred or imposed upon Prospective Developer under this Agreement are conferred or imposed upon any other person.

XIII. DOCUMENT RETENTION

30. The Prospective Developer agrees to retain and make available to DENR all business and operating records, contracts, site studies and investigations, and documents relating to operations at the Property, for ten years following the effective date of this Agreement, unless otherwise agreed to in writing by the Parties. At the end of ten years, the Prospective Developer shall notify DENR of the location of such documents and shall provide DENR with an opportunity to copy any documents at the expense of DENR

XIV PAYMENT OF ENFORCEMENT COSTS

31 If the Prospective Developer fails to comply with the terms of this Agreement, including, but not limited to, the provisions of Section V (Work to be Performed), it shall be liable for all litigation and other enforcement costs incurred by DENR to enforce this Agreement or otherwise obtain compliance

XV NOTICES AND SUBMISSIONS

32. Unless otherwise required by DENR or a Party notifies the other Party in writing of a change in contact information, all notices and submissions pursuant to this Agreement shall be



sent by prepaid first class U.S. mail, as follows.

a. for DENR:

Samuel P. Watson N C. Division of Waste Management Brownfields Program Mail Service Center 1646 Raleigh, NC 27699-1646

b. for Prospective Developer

Rick Benton, County Manager Pender County P.O Box 5 Burgaw, NC 28425

Notices and submissions sent by prepaid first class U.S. mail shall be effective on the third day following postmarking. Notices and submissions sent by hand or by other means affording written evidence of date of receipt shall be effective on such date

XVI. <u>EFFECTIVE DATE</u>

33 This Agreement shall become effective on the date the Prospective Developer signs it, after receiving it, signed, from DENR. Prospective Developer shall sign the Agreement within seven (7) days following such receipt

XVII. TERMINATION OF CERTAIN PROVISIONS

34. If any Party believes that any or all of the obligations under Section VI (Access/Notice to Successors in Interest) are no longer necessary to ensure compliance with the requirements of the Agreement, that Party may request in writing that the other Party agree to terminate the provision(s) establishing such obligations; provided, however, that the provision(s) in question shall continue in force unless and until the Party requesting such termination receives



written agreement from the other Party to terminate such provision(s).

XVIII CONTRIBUTION PROTECTION

- 35 With regard to claims for contribution against Prospective Developer in relation to the subject matter of this Agreement, Prospective Developer is entitled to protection from such claims to the extent provided by N.C G.S. § 130A-310 37(a)(5)-(6) The subject matter of this Agreement is all remediation taken or to be taken and response costs incurred or to be incurred by DENR or any other person in relation to the Property
- 36 The Prospective Developer agrees that, with respect to any suit or claim for contribution brought by it in relation to the subject matter of this Agreement, it will notify DENR in writing no later than 60 days prior to the initiation of such suit or claim.
- 37 The Prospective Developer also agrees that, with respect to any suit or claim for contribution brought against it in relation to the subject matter of this Agreement, it will notify DENR in writing within 10 days of service of the complaint on it.

XIX. PUBLIC COMMENT

38. This Agreement shall be subject to a public comment period of at least 30 days starting the day after the last to occur of the following publication of the approved summary of the Notice of Intent to Redevelop a Brownfields Property required by N C.G.S § 130A-310 34 in a newspaper of general circulation serving the area in which the Property is located, conspicuous posting of a copy of said summary at the Property, and mailing or delivery of a copy of the summary to each owner of property contiguous to the Property After expiration of that period, or following a public meeting if DENR holds one pursuant to N C G S. § 130A-310 34(c), DENR may modify or withdraw its consent to this Agreement if comments received



disclose facts or considerations which indicate that this Agreement is inappropriate, improper or inadequate.

IT IS SO AGREED:

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

By:

Linda M. Culpepper

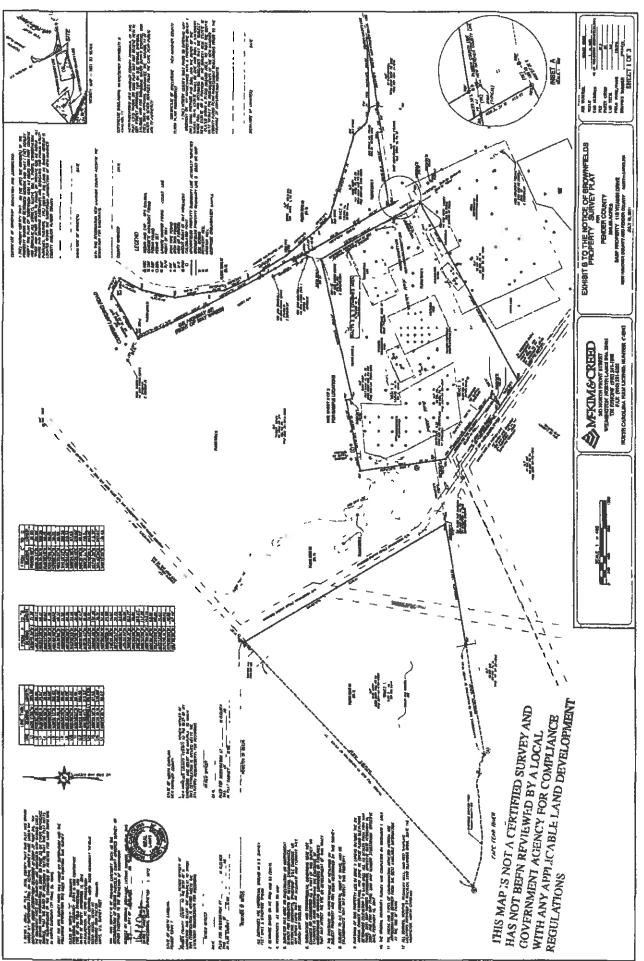
Deputy Director, Division of Waste Management

IT IS SO AGREED:

PENDER COUNTY By

Chairman, Board of Commissioners

12-8-2011 Date



BA003 P0214 12-15-2011
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TARRY SAME

PULL-BIZE PLAT MAP FILED SEPARATIELY



Exhibit 2

Groundwater contaminants (in micrograms per liter, the equivalent of parts per billion), the standards for which are contained in Title 15A of the North Carolina Administrative Code, Subchapter 2L, Rule .0202 (April 2011 update of January 2010 version)

	2 1	D : 027	1 16	
Groundwater Contaminant	Sample	Date of Max.	Max	Unrestricted
Contaminant	Location	Concentration	Concentration above	Use Std.
ļ		Sampling	Unrestricted Use	(μg/L) (for reference
			Std. (µg/L)	only)
Acetone	MW-21D	3/25/1997	110000	6000
Acetone	MW-30D	6/28/1995	109000	6000
Acetone	MW-31D	9/24/1997	300000	6000
Acetone	MW-33D	6/28/1995	558000	6000
Acetone	MW-34	9/21/2000	120000	6000
Acetone	MW-34D	12/14/2000	8600	6000
Acetone	MW-35	3/25/1997	38000	6000
Acetone	MW-37	6/26/1997	9100	6000
Acetone	MW-3D	9/21/2000	8900	6000
Acetone	RW-17	9/21/2000	12000	6000
Acetone	RW-3	3/25/1997	7200	6000
Antimony	PS-RW-17	6/3/2009	14.9	1
Arsenic	CP-MW13D	6/4/2009	31.4	10
Arsenic	CP-RW11	6/4/2009	27.6	10
Arsenic	CP-RW12	6/4/2009	14.9	10
Arsenic	PS-MW-31D	8/11/2009	14.9	10
Arsenic	PS-RW-17	6/3/2009	751	10
Arsenic	SB-MW-2D	6/3/2009	173	10
Arsenic	SB-MW-8D	8/11/2009	12.5	10
Arsenic	SL-MW21D	6/3/2009	130	10
Arsenic	SL-MW5	6/3/2009	13 4	10
Arsenic	SL-MW7	8/11/2009	13.9	10
Arsenic	SL-RW10	8/11/2009	31.8	10
Benzene	MW-10D	9/24/1997	28	1
Benzene	MW-11D	9/24/1997	77	1
Benzene	MW-12D	6/28/1995	8.2	1
Benzene	MW-13D	6/28/1995	15.1	1
Benzene	MW-14D	6/28/1995	295	1
Benzene	MW-15D	12/16/1997	19	1
Benzene	MW-16D	9/17/2008	1.81	1

Benzene	MW-19D	6/28/1995	87.3	1
Benzene	MW-21D	3/25/1997	390	1
Benzene	MW-27D	6/8/2000	3	1
Benzene	MW-2D	6/8/2000	2.0	1
		9/24/1997	37	
Benzene	MW-30D			1
Benzene	MW-31D	6/28/1995	8950	1
Benzene	MW-34	9/21/2000	210	1
Benzene	MW-34D	6/8/2000	6	1
Benzene	MW-35	12/16/1997	24	1
Benzene	MW-38D	12/14/2000	6	1
Benzene	MW-39D	7/7/2004	178	11
Benzene	MW-3D	12/16/1997	300	1
Benzene	MW-8D	12/16/1997	26	1
Benzene	RW-10	9/24/1997	350	1
Benzene	RW-11	12/16/1997	89	1
Benzene	RW-12	3/25/1997	20	1
Benzene	RW-14	3/3/2004	24	1
Benzene	RW-15	7/7/2004	98 20	1
Benzene	RW-16	3/3/2004	350	1
Benzene	RW-17	3/3/2004	470	1
Benzene	RW-18	9/21/2000	6	1
Benzene	RW-19	12/14/2000	5	1
Benzene	RW-2	6/28/1995	10.6	1
Benzene	RW-3	9/21/2000	30	1
Benzene	RW-4	6/28/1995	18	1
Benzene	RW-5	6/28/1995	27 1	1
Benzene	RW-6	6/28/1995	43.3	î
Benzene	RW-7	6/28/1995	22.9	i
Benzene	RW-8	6/28/1995	13.9	1
Benzene	RW-9	9/24/1997	310	1
Benzene	W-1903B	6/28/1995	19 7	1
Cadmium	PS-RW-17	6/3/2009	191	2
Chloride	MW-10D	12/16/1997	1520000	250000
Chloride	MW-11D	9/21/2000	4240000	250000
Chloride	MW-12D	3/1/2000	326000	250000
Chloride	MW-13D	6/26/1997	1214000	250000
Chloride	MW-14D	9/24/1997	7660000	250000
				
Chloride	MW-15D	12/16/1997	482000	250000
Chloride	MW-16D	3/20/2008	586000	250000
Chloride	<u>MW-</u> 21D	12/16/1997	1040000	250000

Chloride MW-2D 9/21/2000 5605000 250000 Chloride MW-30D 6/26/1997 413000 250000 Chloride MW-31D 6/26/1997 1530000 250000 Chloride MW-32D 3/25/1997 530000 250000 Chloride MW-33D 3/25/1997 1500000 250000 Chloride MW-34 9/24/1997 1390000 250000 Chloride MW-34D 6/26/1997 1068000 250000 Chloride MW-35 12/16/1997 281000 250000 Chloride MW-36 9/21/2000 356000 250000 Chloride MW-37 6/26/1997 1117000 250000 Chloride MW-38D 9/21/2000 845000 250000 Chloride MW-38D 9/21/2000 372000 250,000 Chloride MW-42 12/14/2000 372000 250,000 Chloride MW-7 12/14/2000 1021000 250000 Chl	Chloride	MW-24D	3/3/2004	620000	250000
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Chloride RW-15 9/21/2000 699000 250000	Chloride	RW-13	3/25/1997	630000	250000
	Chloride	RW-14	9/21/2000	280000	250000
	Chloride	RW-15	9/21/2000	699000	250000
	Chloride	RW-16	12/14/2000	1025000	250000
Chloride RW-17 12/14/2000 1523000 250000	Chloride	RW-17	12/14/2000	1523000	250000
Chloride RW-18 3/3/2004 1360000 250000	Chloride	RW-18	3/3/2004	1360000	
Chloride RW-19 9/21/2000 908000 250000	Chloride	RW-19	9/21/2000		250000
Chloride RW-2 12/14/2000 264000 250000	Chloride	RW-2	12/14/2000		
Chloride RW-3 3/25/1997 370000 250000	Chloride	RW-3	3/25/1997	370000	250000
Chloride RW-3 9/21/2000 670000 250000	Chloride	RW-3	9/21/2000	670000	
Chloride RW-4 9/21/2000 928000 250000	Chloride		9/21/2000		
Chloride RW-5 12/16/1997 2060000 250000	Chloride	RW-5		2060000	
Chloride RW-6 3/25/1997 2300000 250000	Chloride	RW-6	3/25/1997	2300000	
Chloride RW-7 12/16/1997 464000 250000					
Chloride RW-8 12/14/2000 457000 250000					
Chloride RW-9 3/20/2008 491000 250000					
Chloride W-1903B 6/28/1995 830000 250000					
Chloroform MW-13D 6/28/1995 99 6 70					
Chloroform MW-31D 6/28/1995 520 70					
Chloroform MW-33D 6/28/1995 176 70					

Chloroform	W-1903B	6/28/1995	357	70
Chromium	PS-RW-17	6/3/2009	78.4	10
Chromium	SL-MW5	6/3/2009	51.9	10
Fluorotrichloromethane	W-1903B	6/28/1995	2250	2000
Lead	PS-RW-17	6/3/2009	38.7	15
Methyl Isobutyl Ketone	MW-21D	6/28/1995	9180	100
Methyl Isobutyl Ketone	MW-31D	6/28/1995	5530	100
Methyl Isobutyl Ketone	MW-3D	6/28/1995	551	100
Methylene Chloride	MW-13D	6/28/1995	66 4	5
Methylene Chloride	MW-31D	6/28/1995	3200	5
Selenium	PS-RW-17	6/3/2009	36 1	20
Thallium	CP-RW11	6/4/2009	14 2	0.2
Thallium	CP-RW12	6/4/2009	160	0.2
Thallium	DP-6	8/14/2009	3.8	0.2
Thallium	PS-MW-32D	6/3/2009	3.5	0.2
Thallium	PS-MW-33D	6/2/2009	3 0	0.2
	PS-MW-			
Thallium	34DA	6/2/2009	3.6	0.2
Thallium	PS-RW-17	6/3/2009	12 1	0.2
Thallium	PW-MW-43	8/12/2009	53	0.2
Thallium	SB-MW-2D	6/3/2009	4.4	0.2
Toluene	MW-13D	9/24/1997	9400	600
Toluene	MW-21D	6/28/1995	6770	600
Toluene	MW-30D	6/28/1995	26900	600
Toluene	MW-31D	12/16/1997	51000	600
Toluene	MW-33D	6/28/1995	29400	600
Toluene	MW-34	6/26/1997	310000	600
Toluene	MW-34D	9/24/1997	39000	600
Toluene	MW-35	6/26/1997	9200	600
Toluene	MW-3D	6/28/1995	2150	600
Toluene	RW-10	9/24/1997	810	600
Toluene	RW-11	3/25/1997	3600	600
Toluene	RW-16	12/14/2000	6700	600
Toluene	RW-17	3/3/2004	7600	600
Toluene	RW-9	12/16/1997	710	600
Trichloroethene	MW-3D	6/28/1995	5.7	3
Zinc	PS-RW-17	6/3/2009	37400	1000



Soil contaminants (in milligrams per kilogram, the equivalent of parts per million), the screening levels for which are derived using the Preliminary Unrestricted Use Health Based Remediation Goals (January 2010 version) of the Inactive Hazardous Sites Branch of DENR's Superfund Section

Soil Contaminant	Sample Location	Depth	Date of Max. Concentration Sampling	Max, Concentration above Unrestricted Use Screening Level (mg/kg)	Unrestricted Use Screening Level¹ (mg/kg) (for reference only)
Arsenic	PW-SS1	1-1.5 ft.	5/29/2009	8.2	44
Thallium	PW-SS1	1-1.5 ft.	5/29/2009	2,2	1
Thallium	PW-SS8	1-1.5 ft.	5/29/2009	1.1	1
Mercury	SBSS-5_1	1-1 5 ft.	5/28/2009	7.4	1.1

Screening levels for carcinogens are for 1E-06 risk target; for non-carcinogens they are for 0.2 hazard index

Ages P0220 12-15-2011

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Paye Teachey Prevatte PROP

Page 30 of 33

PULBIZE PLAT MAP FILED SEPHRATELY

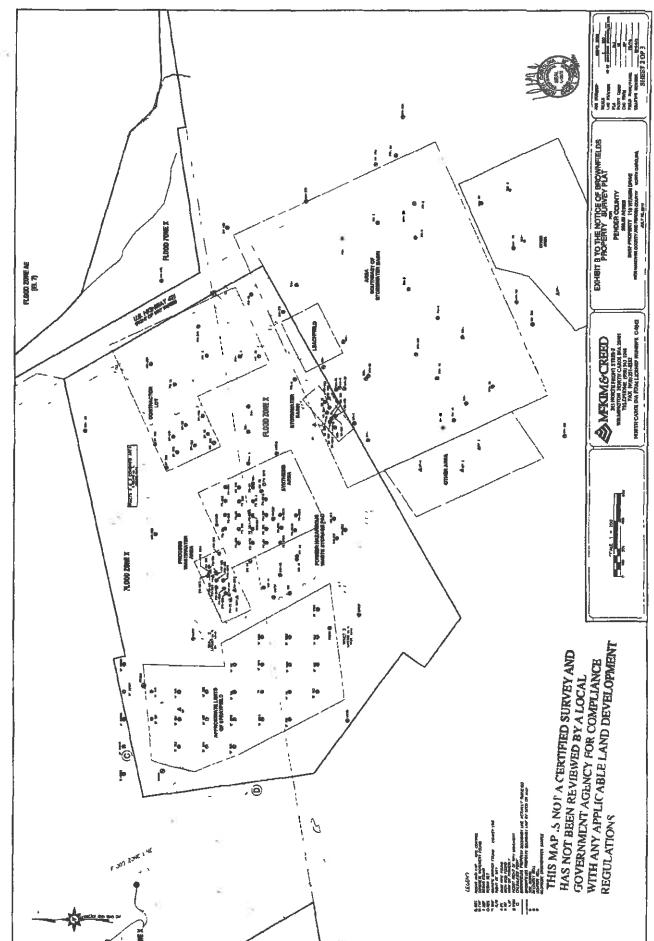


EXHIBIT B: FALCIZE PLAT MAP FILED SEPARATELY

1

C Register of Deeds Page 31 of 33

EXHIBIT B TO THE NOTICE OF BROWNFIELDS PROPERTY SURVEY PLAT

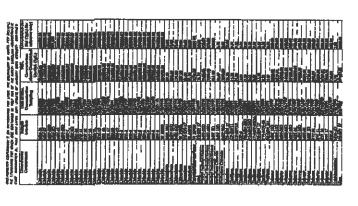
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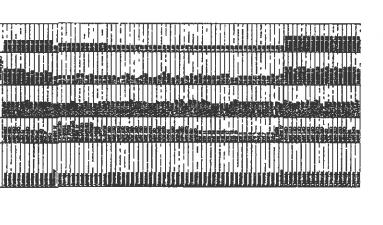
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NC BROWNFIELDS LAND USE RESTRICTIONS ("LUR") UPDATE

Certification Year: _	2019
Name: BASF Facility Pender County Project #: 14031-10-71	Address: 101 Vitamin Drive County: Pender / New Hanover
Property Owner (In part or whole):PE	NDER COUNTY
Read the following LURs and mark each restriction compliance status clarification. Attach any required submit to the following address: Attn: Brow. NC Department of Endown Brown 1646 Mail Se Raleigh, NC	or supplemental documentation, sign, notarize and infields Staff avironmental Quality fields Program rvice Center
LUR 1: No use may be made of commercial/industrial park with related water/se (with a restroom facility and parking lot) along west side of U.S. 421. For purposes of this restrict is defined as a form of development characteric commercial and industrial uses, open space, by flexibility is given to the project planning by allowas the market need arises, so long as the Depa ("DENR") does not determine that any of the otic conditions referenced in N.C.G.S. 130A-310.33(a)	the former railroad right-of-way adjacent to the ction, Commercial/Industrial Park Development zed by a unified site designed for a variety of uffers, and a mix of building types in which wing for the specific land uses to be determined rtment of Environment and Natural Resources her LURs are being violated and that any of the
X In compliance Out of compli	ance
Remarks:	
LUR 2: Groundwater at the Brownfiel	ds Property may not be used for any purpose
without the prior written approval of DENR.	us froperty may not be used for any purpose
X In compliance Out of compliance	ance
Remarks:	

utilities by June 7, 2013 pursuant to section 12.1 of the Prospective Developer/BASF Corporation purchase agreement regarding the Brownfields Property, soil on the Brownfields Property may not be disturbed unless and until DENR states in writing, in advance of the proposed disturbance, that the disturbance may proceed, if carried out along with any measures DENR deems necessary in connection with the proposed disturbance to avoid rendering the Brownfields Property unsuitable for the uses specified in LUR 1 above or public health or the environment less than fully protected. X In compliance Out of compliance Remarks: LUR 4: No building may be constructed on the Brownfields Property until: a. DENR determines in writing, based on submittals from the building's proponent, that the building's users, and public health and the environment, would not be at risk from the Brownfields Property's volatile contaminant plume; or b. vapor mitigation measures approved in writing by DENR in advance are installed to the satisfaction of a professional engineer licensed in North Carolina, as evidenced by said engineer's seal, and photographs illustrating the installation and a brief narrative describing it are submitted to DENR and deemed satisfactory in writing by that agency. X In compliance Out of compliance Remarks: LUR 5: None of the contaminants known to be present in the environmental media at the Brownfields Property, including those appearing on the plat component of the Notice of Brownfields Property ("Notice"), may be used or stored at the Brownfields Property without the prior written approval of DENR, except in de minimis amounts for cleaning and other routine housekeeping activities. X In compliance Out of compliance Remarks:

LUR 3: Other than in connection with demolition/removal of certain structures and

LUR 6: The Brownfields Property may not be used as a park or for sports of any kind. including, but not limited to, golf, football, soccer and baseball, without the prior written approval of DENR. X In compliance Out of compliance Remarks: LUR 7: The Brownfields Property may not be used as a playground, or for child care centers, preschools or kindergarten through 12th grade schools. X In compliance Out of compliance Remarks: _____ LUR 8: The Brownfields Property may not be used for kennels, private animal pens or horse-riding. X In compliance Out of compliance LUR 9: The owner of any portion of the Brownfields Property where any existing, or subsequently installed, DENR-approved monitoring well is damaged shall be responsible for repair of any such wells to DENR's written satisfaction and within a time period acceptable to DENR. X In compliance Out of compliance Remarks:

agreement issued or entered into by DENR, may be denied access to the Brownfields Property for purposes of conducting such assessment or remediation, which is to be conducted using reasonable efforts to minimize interference with authorized uses of the Brownfields Property. X In compliance Out of compliance Remarks: LUR 11: During January of each year after the year in which the Notice is recorded, the owner of any part of the Brownfields Property as of January 1st of that year shall submit a notarized Land Use Restrictions Update ("LURU") to DENR, and to the chief public health and environmental officials of Pender County and New Hanover County, certifying that, as of said January 1st, the Notice of Brownfields Property containing these land use restrictions remains recorded at the Pender County and New Hanover County Register of Deeds offices and the land use restrictions are being complied with, and stating: a. the name, mailing address, telephone and facsimile numbers, and contact person's e-mail address of the owner submitting the LURU if said owner acquired any part of the Brownfields Property during the previous calendar year. b. the transferee's name, mailing address, telephone and facsimile numbers, and contact person's e-mail address, if said owner transferred any part of the Brownfields Property during the previous calendar year. In compliance \underline{X} Out of compliance Remarks: Notice was inadvertently not filed by January 1, 2020 due to an oversight caused by changes in personnel. This notice is provided dated October 19, 2020, and is otherwise in full compliance.

LUR 10: Neither DENR, nor any party conducting environmental assessment or

remediation at the Brownfields Property at the direction of, or pursuant to a permit, order or

Notarized signing and submittal of this Land Use Restrictions Update constitutes certification that the Notice of Brownfields Property remains recorded at the Pender and New Hanover County Register of Deeds office and that the Land Use Restrictions are being complied with.

This Land Use Restrictions Update is certified by George R. Brown, Chairman - Pender County Board of Commissioners, owner of at least part of the Brownfields Property. Name typed or printed of party making certification: Pender County In the case of owners that are entities: Signature of individual signing: ___ Name typed or printed: Director of Utilities/Solid Waste Title: In the case of all owners: Date: October 19, 2020 **Pender County** By: George R. Brown Name typed or printed: Title typed or printed: Chairman NORTH CAROLINA COUNTY , a Notary Public of the county and state aforesaid, certify that George R. Brown personally came before me this day and acknowledged that he/she is the Chairman of Pender County Board of Commissioners, a North Carolina Local Government corporation, and that by authority duly given and as the act of the local government/corporation, the foregoing Land Use Restriction Update was signed in its name by its Director of Utilities/Property Manager and attested by him/her as its Chairman. WITNESS my hand and official stamp or seal, this day of 20__. Name: Notary Public My Commission expires: [Stamp/Seal]



Exhibit C

LEGAL DESCRIPTION

Being all of Tract 1 containing 201.735 acres, Tract 2 containing 84.474 acres, Tract 3 containing 70.545 acres and Tract 4 containing 39.901 acres as shown on the map entitled "Boundary Survey for Pender County" dated November 1, 2010 prepared by McKim & Creed and recorded in Map Book 55, Page 258 of the New Hanover County Registry and Map Book 51, Page 70 of the Pender County Registry, reference to which is hereby made for a more complete and accurate description.



JENNIFER H MACNEISH REGISTER OF DEEDS, NEW HANOVER 216 NORTH SECOND STREET

WILMINGTON, NC 28401

Filed For Registration:

12/16/2011 03:48:55 PM

Book:

RE 5605 Page: 2255-2288

Document No.: 2011034815

34 PGS \$98.00

Recorder:

CARTER, CAROLYN

State of North Carolina, County of New Hanover

PLEASE RETAIN YELLOW TRAILER PAGE WITH ORIGINAL DOCUMENT.

2011034815

2011034815



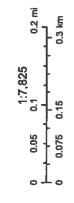
Pender County

Acres: 84,47

Sale Date: LAST_SALE_DATE

Sale Price:

PIN: 2291-84-9960-0000 Owner: PENDER COUNTY



Building Value: \$600,364 Total value: \$1,104,369 Land Value: \$504,005

Exempt Amount: 1104369

PCL Class: C Heated Sq Feet:

Deferred Value: \$0

1 inch = 652 feet

November 19, 2020

Plat: 00530019 Account No: 894103 Township: GRADY Subdivision:

BURGAW, NC 28425

Deed Ref: 3859/338

PO BOX 366

Tax Codes: G01 F25 R40

Description: TR 2 PB 53/19,20&21 PB 51/70 SURVEY Property Address: 101 VITAMIN DR





Major Roads Addresses Roads Landmarks Schools Cemeteries Parks City Limits Parcels



[2]

SOLUTIONS SOLUTIONS



Former BASF Facility 191 Vitamin Dove Wilmington, North Carolina

Chloride Concentrations in Groundwater December 2019

Figure 4

Attachment C

Groundwater Monitoring Report

BASF CORPORATION 101 Vitamin Drive WILMINGTON, NORTH CAROLINA NONCD0002575

Prepared for:

BASF Corporation 101 Campus Drive Florham Park, New Jersey

Prepared by:



ELM Site Solutions, Inc. Raleigh, North Carolina (919) 792-3733

March 2015

Groundwater Monitoring Report

BASF CORPORATION 101 Vitamin Drive WILMINGTON, NORTH CAROLINA NONCD0002575

Prepared for:

BASF Corporation 101 Campus Drive Florham Park, New Jersey

Prepared by:



ELM Site Solutions, Inc. Raleigh, North Carolina (919) 792-3733

Roland B. Norris, PE, PLS, RSN

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	Groundwater Monitoring Event – December 18, 2014	
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- Table 2 Water Quality Parameters
- Table 3 Summary of Constituents Detected in Groundwater

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- Figure 2 Site Plan
- Figure 3 Groundwater Potentiometric Map December 9, 2014
- Figure 4 Exceedances of the 2L Groundwater Standards (Arsenic and Chloride)

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- Appendix A Field Data Sheets
- Appendix B Laboratory Analytical Results
- Appendix C Chloride Trend Graphs

Section 1 Site Background Information

The BASF Facility is located at 101 Vitamin Drive, just west of U.S. Highway 421, approximately seven (7) miles north of Wilmington, North Carolina. The BASF property and facility straddles the New Hanover and Pender County boundary, and has UTM coordinates of approximately 34°20'05.91"N; 78°00'24.58.58W. The BASF property is comprised of approximately 1,100 acres, with the developed portions of the facility being less than 100 acres of the site. Most of the property is undeveloped upland forest and wetlands. The property is bound by the Cape Fear River and extensive associated floodplain wetlands to the west, the Northeast Cape Fear River and extensive associated floodplain wetlands to the east, and by Fishing Creek to the southeast. Undeveloped forestland bounds the BASF property to the north and south. U.S. Highway 421, oriented north and south, intersects the property east of the developed portions of the facility. A sand mining operation is present to the south on the adjacent property. The New Hanover County Solid Waste Landfill is located approximately 1 mile to the southeast of the facility and its northern boundary shares the Fishing Creek boundary with BASF. A Site Location Map is included as Figure 1. Figure 2 depicts monitoring well locations and other site features.

The BASF facility ceased operations in March 2009 and was decommissioned. Pender County now owns a portion of the site. The manufacturing facility was used as a vitamin granulation, formulation and packaging facility. From 1985 to 2003, the facility was used for the synthesis of vitamins B and C. The Vitamin C production line began operation in 1989. The facility was originally constructed and operated by Takeda Chemical Products USA, and subsequently purchased and operated by BASF in 2001.

BASF Corporation entered into an Administrative Agreement for Registered Environmental Consultant (REC)-Directed Assessment and Remedial Action (Document Number 09-SF-303) on August 19, 2009. ELM Site Solutions is the REC for program work. Historical work, and portions of REC Program work, was completed by Mactec (now AMEC) and ENSR (now AECOM).

The most recent groundwater monitoring event was conducted between December 9 and 12, 2014 and was designed to meet requirements of the North Carolina Department of Environment and Natural Resources' (NCDENR) Inactive Hazardous Waste Sites Branch (IHSB) Registered Environmental Consultant (REC) Program Rules (15A NCAC 13C .0300) and Guidelines. Project work was conducted as described in accordance with the Remedial Investigation Work Plan (MACTEC, November 20, 2009). The work completed does not deviate significantly from that described in the RI Work Plan.

Section 2 Site Topography, Hydrology, Hydrogeology and Geology

The Site lies within the Coastal Plain physiographic province of North Carolina. The Geologic Map of North Carolina, prepared by the North Carolina Geological Survey, indicates the site is underlain by coastal plain sediments of recent and Cretaceous age, specifically the Pee Dee Formation. The Pee Dee Formation is described as marine sand, clayey sand and clay. Based on geologic borings conducted on the site, upper subsurface deposits consist of unconsolidated fine to coarse quartzose sands, containing some pea gravels and occasional thin discontinuous clayey bands. These sands generally extend to depths of 40 to 70 feet below land surface depending partially on elevation. The sands tend to become coarser in texture in the lower part of the section. These sands are thought to have been deposited in a fluvial environment, probably related to ancient channels of the nearby Cape Fear and Northeast Cape Fear Rivers.

The sands overlie a thick layer of dark, greenish gray clayey, silty, fine to very fine sand. The greenish color results from glauconite indicating the sediments are of marine origin. This lithology is typical of the Pee Dee Formation.

The upper sands represent the main useable aquifer at the site and surrounding area. This is an unconfined, very productive shallow aquifer with high transmissivity and hydraulic conductivities. The Pee Dee Formation beneath the upper sand aquifer is reportedly not useable in this area as a significant groundwater supply because it contains a very thick section of silty, clayey fine to very sands. The first permeable zone below the upper sand aquifer reportedly contains saline groundwater. The water table within the upper sand aquifer typically ranges from 5 to 20 feet in depth. Groundwater flow from the facility area is generally south to southeast towards the Northeast Cape Fear River. West of the facility, groundwater tends to flow in a more westerly direction towards the Cape Fear River. Both rivers systems are major regional groundwater discharges areas.

Based on groundwater elevations measured during the December 2014 monitoring event, the groundwater depth ranges from 3.13 feet below top of casing (btoc) in RW-8 to 27.20 feet btoc in MW-28D. Water level measurements from the Site wells indicate that the water table slopes generally toward the southeast towards the Northeast Cape Fear River.

Section 3 Field Investigation Methods

3.1. Introduction

Field Investigation methods for the December 2014 groundwater monitoring event were conducted in compliance with the U.S. Environmental Protection Agency (EPA) Region IV Field Branches' Quality System and Technical Procedures (USEPA Procedures). The field investigation was designed to determine the presence or absence of constituents of interest in site-wide groundwater in accordance with the Monitored Natural Attenuation (MNA) groundwater remedy outlined in the Remedial Action Plan (RAP) for the site. Groundwater samples were collected from the following monitoring wells in December 2014 and were analyzed for the following parameters:

DP-2 Thallium DP-6 Thallium and Arsenic MW-2D Chloride, Arsenic, Arsenic MW-3D Chloride, Arsenic, Thallium MW-4 Arsenic MW-5 (Attempted to Sample, Dry) Antimony, Arsenic, Chromium MW-6 Arsenic MW-7 Arsenic, Chloride, Thallium MW-8D Arsenic, Chloride MW-1D Chloride MW-1D Chloride MW-13D Arsenic MW-14D Chloride MW-15D Chloride MW-17D Chloride MW-18D Chloride MW-21D Arsenic MW-24D Thallium MW-28D Thallium MW-30D Thallium MW-31D Antimony, Arsenic, Thallium MW-32D Thallium MW-34DA Thallium MW-39D Thallium MW-34 Thallium MW-46 Thallium RW-1 Arsenic, Chloride RW-6 Chloride <th></th> <th></th>		
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MW-13D Arsenic MW-14D Chloride MW-15D Chloride MW-17D Chloride MW-18D Chloride MW-21D Arsenic MW-24D Thallium MW-28D Thallium MW-30D Thallium MW-31D Antimony, Arsenic, Thallium MW-32D Thallium MW-33D Thallium MW-34DA Thallium MW-39D Thallium MW-43 Thallium MW-46 Thallium RW-1 Arsenic, Chloride RW-4 Chloride RW-6 Chloride RW-8 Chloride RW-10 Chloride RW-11 Thallium RW-12 Thallium RW-18 Chloride	MW-11D	Chloride
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MW-34DA Thallium MW-39D Thallium MW-43 Thallium MW-46 Thallium RW-1 Arsenic, Chloride RW-4 Chloride RW-6 Chloride RW-8 Chloride RW-10 Chloride RW-11 Thallium RW-12 Thallium RW-18 Chloride	MW-32D	Thallium
MW-39D Thallium MW-43 Thallium MW-46 Thallium RW-1 Arsenic, Chloride RW-4 Chloride RW-6 Chloride RW-8 Chloride RW-10 Chloride RW-11 Thallium RW-12 Thallium RW-18 Chloride	MW-33D	Thaliium
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RW-10 Chloride RW-11 Thallium RW-12 Thallium RW-18 Chloride	RW-6	Chloride
RW-11 Thallium RW-12 Thallium RW-18 Chloride	RW-8	Chloride
RW-12 Thailium RW-18 Chloride	RW-10	Chloride
RW-18 Chloride	RW-11	Thallium
	RW-12	Thallium
RW-19 Chloride	RW-18	Chloride
	RW-19	Chloride

Monitoring program wells include current and previously impacted wells along with sentinel wells around the perimeter of the identified plumes. The samples were analyzed for select metals (antimony, arsenic, chromium and thallium) and chloride. Details of the fieldwork are provided below.

3.2. Groundwater Monitoring Event – December 2014

Thirty-six on-site groundwater monitoring wells (see table above) were sampled between December 9 and 12, 2014. This monitoring event included measuring groundwater elevations, measuring water quality parameters and collecting groundwater samples from the monitoring wells. The locations of the monitoring wells are presented on **Figure 2**.

Water levels were measured at each well prior to sampling using a Testwell water level meter. Purging was accomplished by using a variable speed peristattic pump with the pumping rate adjustable to equal the approximate recharge rate of the well. Indicator parameters of pH, temperature, specific conductance, and turbidity were measured regularly during purging with a YSI 6920 water quality meter until the measured values stabilized within an approximate 10% tolerance. This method targets the collection of groundwater samples that have the least total suspended solid count obtainable without filtering in the field, thus giving a more accurate indication of dissolved constituents present in the aquifer. **Table 1** summarizes monitoring well construction details and relative groundwater elevations for the December 2014 monitoring event. **Table 2** summarizes the groundwater quality parameters that were obtained in the field prior to sampling each monitoring well. Field data sheets are attached as **Appendix A**.

Groundwater samples were collected after the field parameters had stabilized. Sample collection was performed directly from the outlet of the peristaltic pump discharge tubing once the flow rate from the pump had been reduced.

3.3. Laboratory Analysis of Groundwater Samples

Groundwater samples collected during the December 2014 quarterly monitoring event were secured in coolers, placed on ice and hand-delivered to SGS for analysis. Laboratory work orders and chain-of-custody documents, which included project and sample identification information, were placed within each cooler for shipment. The samples were analyzed for antimony, arsenic, and thallium by EPA Method 6020A and chloride by EPA Method 300.0. Table 3 summarizes the groundwater analytical results and compares the detected constituents to their respective 15A NCAC 2L Groundwater Standards.

4.1. Status of Site Groundwater

4.1.1 Site Hydrogeology

The top of casing elevations and depths to groundwater were used to calculate groundwater elevations at each monitoring well location (**Table 1**). The groundwater elevations were used to determine the groundwater flow direction at the Site. Water level measurements from the Site wells indicate that the water table slopes generally toward the southeast towards the Northeast Cape Fear River as shown in **Figure 3** (potentiometric surface December 9, 2014).

4.1.2 Laboratory Results

Table 3 provides a summary of analytical results for groundwater during this sampling event, with the complete laboratory report included as Appendix B. The only remaining site constituents above 15A NCAC 2L standards are arsenic (MW-3D, MW-13D, MW-21D and MW-31D) and chloride (MW-3D, MW-11D, MW-12D, MW-14D, RW-4, RW-6 and RW-18). The current 15A NCAC 2L groundwater exceedances are depicted on Figure 4. The arsenic exceedances appear to be isolated to the vicinity of monitoring wells MW-3D, MW-13D, MW-21D and MW-31D. Arsenic was not used in manufacturing processes on the site and is a naturally occurring element, likely present above 15A NCAC 2L standards due to mobilization in a reducing biogeochemical environment as indicated by a low oxidation reduction potential and a low pH in some site wells. As these conditions return to ambient, it is expected that metals concentrations will attenuate as was historically observed in other site wells. Chloride exceedances continue to be present in monitoring wells MW-3D, MW-11D, MW-12D, MW-14D, RW-4, RW-6 and RW-18. The highest chloride concentrations remain in RW-18 and MW-14D, which lie in the southwest portion of the site, at 2,550 milligrams per liter (mg/L) and 1,250 mg/L, respectively. Most of the elevated chloride concentrations (with the exception of MW-3D, stormwater basin) appear to be part of a narrow plume trending in an east-west fashion across the southern portion of the site.

Concentration graphs of key wells showing the length of time it will take the wells to attenuate using linear regression are attached as **Appendix C**. Linear and logarithmic curves were fitted to the data and the most appropriate was chosen for display on the graph. Monitoring has historically been conducted quarterly or semi-annually. Within one year, most of the wells (15

out of 23) in the monitoring plan are expected to have constituents below the 2L standards and can be removed from the monitoring program. However, seven (7) wells are estimated to take three (3) or more years to achieve their respective 2L standards. The attenuation curve for RW-6 indicates the potential for a long attenuation period.



TABLE 1 GROUNDWATER ELEVATION DATA SUMMARY DECEMBER 9, 2014 BASF CORPORATION WILMINGTON, NORTH CAROLINA

Well Identification	Well Depth (feet bgs)	Reference Elevation (Feet)	Depth to Groundwater (12/09/2014) Feet BTOC	Groundwater Elevation (12/09/2014)
DP-2	27.80	RNA	8.92	RNA
DP-6	33.00	RNA	17.86	RNA
MW-1SF	12.60	19.80	NM	NM
MW-4SF	11.70	12.63	NM	NM
MW-2D	39.00	15.18	10.20	4.98
MW-3	20.35	14.19	NM	NM
MW-3D	41.30	15.04	9.32	5.72
MW-4	RNA	RNA	11.23	RNA
MW-5	19.80	25.58	DRY	RNA
MW-6	23.50	19.23	13.64	5.59
MW-7	34.90	27.78	22.55	5.23
MW-8D	56.40	29.28	23.62	5.66
MW-9	22.10	16.66	NM	NM
MW-11D	37.10	13.31	7.67	5.64
MW-12D	31.70	12.67	9.14	3.53
MW-13D	39.80	17.10	11,60	5.50
MW-14D	30.00	12.15	6.24	5.91
MW-15D	NA	11.04	5.38	5.66
MW-17D	NA	14.11	9.46	4.65
MW-18D	26.90	9.53	5.76	3.77
MW-19D	30.20	11.40	NM	NM
MW-21D	37.50	22.88	17.85	5.03
MW-24D	36.90	17.21	10.28	6.93
MW-26D	36.10	15.01	NM	NM
MW-28D	33.55	32.24	27.20	5.04
MW-30D	36.40	22.83	16.45	6.38
MW-31D	36.50	21.66	15.43	6.23
MW-32D	34.00	22.06	15.56	6.50
MW-33D	34.30	22.48	15.76	6.72
MW-34DA	45.60	25.03	18.35	6.68
MW-39D	32.60	8.96	3.72	5.24
MW-43	27.00	21.31	14.27	7.04
MW-46	27.60	21.68	14.82	6.86
RW-1	RNA	RNA	12.67	RNA
RW-4	31.90	8.28	4.45	3.83
RW-6	32.30	9.60	4.34	5.26
RW-7	34.20	RNA	NM	NM
RW-8	RNA	RNA	3.13	RNA
RW-9	44.00	RNA	NM	NM
RW-10	44.20	RNA	21,24	RNA
RW-11	39.20	RNA	15.71	RNA
RW-12	49.00	RNA	22.04	RNA
RW-18	48.50	RNA	5.10	RNA
RW-19	RNA	RNA	4.70	RNA

NM - Not measured

bgs = Below ground surface

BTOC = Below Top of casing

MSL = Mean Sea Level

NM - Not Measured

RNA = Reference Elevation Not Available

Reference elevations obtained from 2008 Groundwater Monitoring Report (MACTEC)

TABLE 2

STABILIZED GROUNDWATER FIELD PARAMETER MEASUREMENTS - DECEMBER 9 TO 12, 2014

BASE CORPORATION, WILMINGTON, NC

Well ID	Temperature (degrees C)	pH (STU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation- Reduction Potential (mV)
DP-2	18.62	6.18	0.095	3.2	10.62	49.9
DP-6	18.45	6.77	0.401	4.6	0.73	-3.9
MW-2D	18.93	6.78	0.426	7.1	0.66	-63.7
MW-3D	19.07	7.15	2.379	7.3	0.11	-158.0
MW-4	17.70	6.94	0.234	8.8	2.44	24.2
MW-6	19.95	6.97	0.165	1,2	2.82	-8.6
MW-7	19.37	5.02	0.039	2.0	10.59	115.0
MW-8D	19.29	6.59	0.454	4.3	2.52	7.7
MW-11D	17.28	7.14	2,122	12.3	1.11	-147.0
MW-12D	16.59	7.14	1.713	8.4	0.03	-129.0
MW-13D	20.06	7.33	0.720	6.7	0.04	-142.0
MW-14D	17.57	7.00	4.113	18.9	0.84	-144.0
MW-15D	19.40	5.74	0.213	0.1	1.29	80.0
MW-17D	18.86	6.06	0.303	3.8	0.06	60.4
MW-18D	18.94	5.64	0.070	3.8	0.14	80.7
MW-21D	18.79	7.09	0.446	82.2	0.11	-111.0
MW-24D	18.42	4.77	0.089	0.4	0.18	90.1
MW-28D	17.85	6.34	0.068	1.0	0.19	8.1
MW-30D	19.17	7.03	0.241	1.8	0.03	-102.7
MW-31D	18.97	7.29	0.222	7.3	0.12	-140.0
MW-32D	19.50	7.66	0.129	0.1	0.85	-132.0
MW-33D	20.26	7.12	0.355	4.7	0.39	-89.4
MW-34DA	19.76	7.23	0.251	4.2	4.09	-4.9
MW-39D	16.83	5.65	0.183	1.3	0.12	76.2
MW-43	21.24	6.89	0.122	2.8	7.56	30.6
MW-46	20,09	6.32	0.103	1.2	6,58	8.5
RW-1	19.26	6.79	0.179	8.6	0.55	-53.9
RW-4	16.79	6.96	1.013	5.2	0.08	-7.3
RW-6	18.29	6.65	2.140	9.7	0.69	52.5
RW-8	17.68	6.63	0.627	3.8	1.47	49.1
RW-10	18.40	6.60	0.149	4.4	0.14	0.9
RW-11	19.26	7.09	0.396	1.8	0.14	17.9
RW-12	18.02	6.73	0.258	26.4	0.04	-9.5
RW-18	18.78	6.96	7.422	46.8	0.10	-159.0
RW-19	17.54	6.53	0.222	0.1	2.36	82.4

Notes:

C = Degrees celsius.

mS/cm = Millisiemens per centimeter.

STU = Standard units.

mg/L = Milligrams per liter.

mV = Millivolts.

NTU = Nephelometric Turbidity Units.

Table 3
Historical Groundwater Analytical Results
Wilmington, North Carolina

Table 3
Historical Groundwater Analytical Results
Wilmington, North Carolina

<0.000641	<0.000128	<0,0000641	<0.0000297	<0.000297	NM	NM	NM	MN	MN	WN	NM	WW	<0.01	<0,0005	<0.0005	U. 2000.0	<0.00003	<0.000128	<0,000641
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DP-6	DP-6	08-6	8-d0	DP-6	MW-2D	GC:WM	OZ-MW	dz-ww	MWV-2D	MW-2D	MW-2D	MW-2D	WW.3D	JE-WW	MW-3D	MW-SID	MW-3D	QE-WW	GE-WW

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

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OS-WW	OE-WW	OE-WW	OE-MM	JS85-WM	MM-3BSF	MW-3BSF	MW-3B3F	►WW.	S-MAN	PM-5	9-MM	\$-MM	S-WW	MW-5	S-WW	S-AW	MW-5	MW-5	MW/-5

Table 3
Historical Groundwater Analytical Results
Wilmington, North Carolina

NM	MN	<0,0005	<0.0005	0.0007 J	<0.00003	<0.000128	<0,000641	<0.000128	<0.0000641	<0.0000297	<0,0000297	MN	MN	MN	MN	MN	WZ	MN	MN
NM	MN	MA	MN	WN	MM	MM	WW	N	MM	MN	NM	MN	MN	MN	MN	MN	MM	NM	M
WN	MN	<0,01	0.0024 J	<0.001	70000	WN	MN	MM	WW	WN	NM	NW	WW	WW	WN	W.	NM	NM	MM
W	WN	3.43	W	3.62	WN	NM	WN	MN	WN	MN	5,29	50.4	73.0	WW	28.3	WW	68.9	MN	74.6
0.000160 J	40.07	40,01	<0.0005	0.0016 J	0.00008 J	WW	WN	MM	WN	WN	L 0080000,0	×0.01	-0.01	<0,0006	D,0038 J	0.00032 J	0,00110.0	NM	9.00194
MN	×Σ	WN	M	WN	WN	WN	N.	NM	WN	NM	NM	NM	MN	NM	N.W.	NIM	WW	NM	MM
MN	MN	WN	ΣZ	ΣZ	WN	WW	WN	NW	NM	MN	NM	NM	MM	NM	MN	NM	NM	NM	MM
N№	MM	MN	W	W	MA	MN	MN	MN	WN	WN	W	MM	WN	WN	₩.	MN	WV	MN	MM
12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	8/7/2012	12/10/2012	6/20/2013	12/15/2013	8/10/2014	12/10/2014	12/17/2010	777/2011	8/15/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	12/10/2014
MW-6	MW-7	MW-7	NW-7	NAW-7	NAW-7	NAW-7	MW-7	WWW-7	T-WW	MW-7	MW.7	WW-8D	MAV-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

,																			
W	N.	2	MM	MN.		T N	MN	2	2		2		2	1	22	2	2		MN N
W	Ž	Ž	ž	×	N	2	2	2	2	2	2	2	2	2	2	MN	2		E N
NA NA	N	2	×	×	N.	Z	N	SN.	2	2	2	3	2	2	2	2	3		NM
52.9	21,7	2	21,5	×	4.16	27.1	2	120	<u>₹</u>			23	249	721	20	×	125	2	174
MM	WN	<u> </u>	- A	W	N.	N.	<u>\$</u>	ž	. ₹	2	₹	P.		2	¥		20194	8000	0.0086
NM	NM	W.	WN	WM	WN	WN	×N	WN	N.	ž	2	2		W	W	¥	×	200	MM
M.	NM	WN	NM	WN	42.9	WN	¥Ž	MM	MM	N	WW	æ.	æ	W	WN	WN		2	WW
MN	MM	NIK	WW	NPA		₹	MN	<0.113	W	Æ		2	¥	MM	MN	MM	W		MM
12/17/2010	777/2011	BH5/2011	12202011	3/30/2012	12/17/2010	7772011	9/15/2011	1226/2011	3/30/2012	677/2012	12M0/2012	6/20/2013	125/2013	6/10/2014	12/10/2014	1277/2010	777/2011	9/15/2011	12/20/2011
JAW-10D	MW-10D	NWW-10D	WW-10D	MW-10D	MW-11D	MW-11D	MW-11D	MM4-11D	MW4-11D	WW4-11D	WW-11D	MW-11D	MW-11D	MW-11D	MW-11D	MW-12D	MW-12D	MW-12D	MW-12D

Table 3 Historical Groundwater Analytical Results Wlimington, North Carolina

WW	N A	N. N.	NM	MM	MM	WN	WW	WN	WN	WN	WN	MN	MN	WN	WW	W	MM
M	MN MA	WW	WW	NM	MN	WN	MM	NM	MN	MM	MM	NM	MM	NIM	MN	MM	MN
MN	W I	X.	W	MN	NM	NIN	NM	WN	W	WN	NM	MN	MN	MM	W	WN	MN
NIM	207	WIN	909	112	50.4	MN	948	NIA	MN	WW	675	968	NW	1816	WN	67.9	1330
668000'0>	NA.	E N	WM	<0.01	<0.01	<0,0005	0,0078	0,00167	MM	0,01140	WN	NM	MM	WN	MN	MN	MM
WN	WN.	WN WN	WW	NM	NM	MM	MN	MN	MN	MA	MM	WW	MN	MM	WN	WN	WW
WW	WW	EN W	WW	MM	NM	NM	NM	WN	MM	MM	NM	MM	MM	MN	NM	WN	NM
NM	MM	X X	MM	W	۲>	N.	Q.113	WN	WN	MN	- V-	<1	MM	0.015 J	MN	MM	W
67/2012	12/10/2012	6/20/2013 12/5/2013	12/10/2014	12/17/2010	777/2011	8/15/2011	12/20/2011	3/30/2012	677/2012	12/10/2014	12/17/2010	1772011	9/15/2011	12/20/2011	3/30/2012	6/1/2012	12/10/2012
MW-12D	MW-12D	MW-12D MW-12D	MW-12I3	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	WW-13D	MW-13D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	WW-14D
MAY-12D	MW-12D		MW-12D MW-12D	MW-12D MW-12D MM-12D	MW-12D MW-12D MW-12D	MW-12D MW-12D MW-12D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D	MAV-171) MAV-172 MAV-13D MAV-13D MAV-13D MAV-13D MAV-13D MAV-13D MAV-13D	MW-12D MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D MW-13D MW-13D MW-13D	MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-13D MW-14D MW-14D MW-14D	MW-12D MW-12D MW-12D MW-12D MW-13D MW-13D MW-13D MW-13D MW-14D MW-14D MW-14D MW-14D

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Σ Σ ž ₹ ₹ ₹ ₹ Σ ₹ ₹ N N N ¥ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ Ž Σ Σ Σ Σ Ž 폴 ₹ 差 ₹ ž 1670 19,5 976 2 ž 268 Σ ž ₹ ₹ 8 Z 136 ₹ 155 2 ₹ ₹ Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina Q.01 ₹ 뢸 ₹ 골 ₹ ž 폴 ₹ ₹ ₹ ₹ Ž 3 ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ N Z ₹ N ₹ ₹ Σ M ₹ Ž ž ¥ Σ Ž ₹ ₹ Ž ₹ ₹ ₹ ₹ ₹ N ₹ ₹ ĕ Σ ₹ Σ Ž ₹ ₹ 훒 <0.113 푳 ₹ ₹ ₹ 差 § 푳 푈 ₹ ₹ Ÿ ž ₹ N ₹ ⊽ ₹ ₹ 12/17/2010 6/20/2013 12/5/2013 1270/2014 12/20/2011 3/30/2012 12/10/2014 12/17/2010 3/30/2012 12/10/2012 6/20/2013 12/17/2010 9/15/2011 9/15/2011 12/20/2011 6/10/2014 777/2011 7/7/2011 6/7/2012 MW-15D MW-15D MW-14D MW-14D MW-14D MM-14D **CB1-WM** MW-15D MW-15D WW-15D MW-18D MW-18D MW-18D MW-16D WW-16D WW-18D MW-16D MW-17D MM-16D

40.01 0.01

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

WN	MM	NA	MN	<0.01	NM	MM	M	W	WW	<0.01	WN	WN	WN	WW	MM	WN	WW	WN	MM
W	WN	¥N.	WW	WN	MM	NM	WN	WN	NM	WW	W	X.	MM	M	WM	MM	¥	N.	W.
W	WN	EN	. WN	MM	MM	MN	MN	MN	MN	WW	ΨN	×	MN	WN	WW	MM	WN	W	W
MN	107	MN	71,0	MN	6.20	WW	7.42	MN	14.8	WN	27.3	MN	18.3	W	MN	MN	MN	WN	WN
MN	WN	NM	W	<0.01	WN	W	NM	NM	NM	10.0>	MN	MN	WN	WN	W	WN	WN	WW	W
WN	NM	MM	MM	MN	W	N.	WW	WW	WW	M	WN	WW	X.	MN	×	MN	WN	WN	W
WW	MM	MN	MM	MM	NA	WW	NM	MN	MM	WN	W	MN	WN	MM	W	AN.	W	MM	NM
XX.	MN	MN	MM	XX.	WN	WN	MM	WN	NM	NIN	NPS	NM	MN	NM	MA	×	WW	NM	NM
8/15/2011	12/20/2011	3/30/2012	12/10/2014	12/1//2010	7/7/2011	9/15/2011	12/20/2011	3/30/2012	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	12/1/1/2010	7772011	9/15/2011	12/20/2011	3/30/2012
WWW-17D	Q11-WW	GTI-WM	MW-17D	MW.18D	MW4-18D	MW4-18D	WW-18D	Q87-WW	CIST-WWM	QW-19D	MW4-19D	CI61-WW	Qβ}-WW	AAW-19D	CIOZ-WW	Clos-ww	MW-20D	MW-20D	SANA-20D

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

2	3	2	2	¥	X X	Z	MN	909	-0 000e	<0.0005	7960III 0>	T Rango d	on 0000128	<0.000641	<0.000128	-D-000841	20 0000002	70000000	WN
×N	×	N N	¥.	2	×	×	×	N.	N.	S X	N.	W	22	Z	22	×	2	2	NW
MN	- 2	Z	2	32	Ž	ž	M	2	2	ž	×	2	Ž	Z	ž	Z	ž	2	WW
W	5.6 6.5	×	£ 99	×	N N	N N	WW	Z	Z	×	Z	×	2 2	W.	Z	N.		N Z	MA
b.8214	40,04	0,0048 J	0,0082	0.00599	0,00910	. ₹	0,8296	₹	3	₹	2	E V	¥	N.	- -	. ¥	2		WW
- MM	NM	×N	Ž	Ž	N.	N.	MM	×	2	ž	ž	2	ž	MN	ž	×	×	. ₹	WW
NM	WN	W	¥	¥	NM	MM	MM	Ž	Z	×	Ž	2		MN	***	NM		<u>₹</u>	WN
MM	MN	MIN	MN	¥	WW	WN	MAN	¥	¥	W	2	W	MN	MN	M.	MM		3	MM
12/17/2010	7.011	9/15/2011	1220/2011	3/30/2012	6/7/2012	12/10/2012	12/10/2014	12/7/2010	777/2011	9415/2011	1220/2011	3/30/2012	67/2012	12/10/2012	6720/2013	12/6/2013	670/2014	12/10/2014	12/17/2010
MM-21D	MW-21D	M89-21D	MM-21D	MM-21D	MW-21D	MW-21D	MW-21D	MW-24D	MW-24D	MW-24D	MW-24D	MW-24D	MW-24D	MW-24D	MW-24D	MW-24D	MM-24D	MW-24D	MAY-27D

Table 3
Historical Groundwater Analytical Results
Wilmington, North Carolina

MN	MN	NM	MN	Ν̈́N	<0.01	<0.D005	DRY	<0.000297	<0.00003	<0.000128	<0.000641	<0.000128	<0.0000641	<0,0000297	<0,0000297	<0.01	<0.0005	<0.0005	782000,0>
WN	WN	MN	WN	WN	WN	WN	DRY	W	W	W	W	MN	WN	WW	WN	WN	WN	WW	MN
W	WN	MN	WN	MN	WN	MM	DRY	MM	WW	MM	WN	N.	NN	NN	NM .	NM	MM	MA	MN
25.2	MN	21.9	NM	NM	MN	MM	DRY	MN	NM	MN	MN	MN	NM	MN	MN	MM	MM	MN	MM
-0.01	<0.0005	0,0014 J	0.00017 J	WW	<0.01	<0.01	DRY	0.0024	~0.0000/	MN	W.	WN	×	MM	WN	-0.01	WN	WN	MM
NM	NM	MM	NM	NM	MM	WW	DRY	MΝ	WN	WN	Σį.	MN	WN	WN	NM	MN	MM	NM	MM
NM	NM	MM	NM	MM	MM	MM	DRY	W	¥	ΜN	WN	MM	MN	MM	NM	MM	MM	WN	NM
W	MΝ	WN	MN	WN	WN	W	DRY	W	MM	MM	¥	W	×	MM	WN	MN	WN	MN	W
71112011	9/15/2011	12/20/2011	3/30/2012	6/7/2012	12/17/2010	7/7/2011	9/16/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011
MW-27D	MW-27D	MAW-27D	MA4-27D	MW-27O	MW-28D	CBS-WW	WW-2813	WWW-280	M₩-28D	MW-28D	C082-MM	MW-28D	WW-28D	MW-28D	MW-28D	MW-30D	MW-30D	MW-30D	MAW-30D

<0,0005

<0,000128 <0.00003 <0.000641 <0.00000297 <0.0000297 <0.00003 0,000128 <0,0000297 <0,000128 <0.000641 <0,000297 <0.000128 <0,0000641 <0,0000297 <0.0005 <0.0005 <0.000641 ₹ <0.0> <0.000824 0.00021 J <0.00143 <0,0005 M ₹ ₹ ₹ Š N Ž × ₹ ₹ Σ ₹ ₹ 죍 M ₹ ₹ 를 ₹ ₹ Σ Ž Σ M 폴 픨 ₹ ₹ Σ ₹ Σ ž ₹ ₹ ₹ Σ 폴 ₹ ₹ ₹ ₹ ₹ Σ Σ ₹ ₹ ₹ ₹ ₹ 픨 ₹ ₹ Σ ₹ Historical Groundwater Analytical Results Wilmington, North Carolina <0.0005 0,0437 0.0270 0.0181 0.0254 0.0334 0,0040 0.0236 0.0178 0.0384 0.0437 至 ₹ ₹ ₹ ¥ ₹ Σ 夏 ₹ <0.000317 <0,00133 <0.000437 <0.00004 <0.000268 <0,00028B <0.000317 <0,005 ₹ Ž ₹ ₹ ₹ ¥ ₹ Ž ž Z ₹ ₹ Ž ₹ ₹ ₹ ₹ N ₹ ₹ Σ ₹ ₹ ₹ ₹ ¥ ₹ Σ ₹ Ž ₹ Σ ₹ 포 ₹ 죌 ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ 푳 ₹ 푈 ž ᢖ ₹ ∄ ₹ 12/10/2012 12/5/2013 6/10/2014 6/20/2013 6/10/2014 12/17/2010 3/30/2012 12/10/2014 12/20/2011 12/10/2012 6/20/2013 12/5/2013 12/10/2014 12/17/2010 67/2012 9/15/2011 3/30/2012 6/7/2012 7/7/2011 777/2011 MW-30D MM-30D MW-30D MW-31D MW-31D MM-30D WW-30D MW-30D MW-30D MW-31D MW-31D MW-31D MW-31D MW-31D WW-32D MW-31D MW-31D MW-31D MW-32D

Table 3

Table 3 Historical Groundwater Analytical Results Wlimington, North Carolina

-0.0005	782000,0>	-0,00003	<0,000128	<0.000841	<0.000128	<0.0000641	<0.0000297	<0.0000297	<0.01	<0.000%	<0.0005	<0.000297	<0.00003	<0.000128	<0,000641	<0.000128	-0.0000641	-0.0000297	<0,0000297
WN	WN	₩ N	MM	MM	NM	NW	MA	NM	MM	NM	MM	MN	NM	MM	NM	MN	NM	MM	NM
NW	MA	×	NIM	MM	NM	MM	MM	NM	WN	WN	MM	NM	NM	MM	NM	MM	NM	NM	MM
MN	W.	MN	W	MM	WN.	WN	NM	NM	WN	MN	W	MM	WN	MN	MN	NM	WN	WM	W
NM	NM	WW	M	MM	NM	NM	NM	MM	MM	N.	WW	W	WW	MM	MM	MM	MM	WW	WW
MN	SN.	MN	Σ	MIN	MN.	WN	MN	ΣZ	NIM	N.	MN	MN	×Z	WN	WN	NM	WN	×	WN
AN	×	MM	×	MM	WN	WN	NM	WN	W	W _N	W	WN	MN	W	WM	NM	NR	MM	NM
MN	MN	NM	WN	MM	MN	MN	MN	WN	WN	W.	W	X.	W	M	M	MN	MN	×	W
9/15/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	67207013	12/5/2013	6/10/2014	12/10/2014
QZE-WW	NAW-32D	NAW-32D	CZS:-WWV	MW-32D	MW-32D	MW-32D	MW-3ZD	MW-32D	CIEC-MAW	CIES:-WW	Cles-WM	MW-33D	CIES-WW	Qes-AAN	MAV-33D	CIEE-WW	CIES-WW	QSC-WW	CICE-WW

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

8	<0.0005	<0,0005	<0.000ZB7	<0.00003	<0,000128	<0.000641	<0.000128	<0.0000641	<0,0000297	<0.0000297	¥	×	. ≩	ž	æ	ž	¥.	10.0	<0,0005
¥.	W	WN	M	¥	WN	WW	MM	W	W	WW	W	¥	W	¥	MM	W	¥.	Σ	NM
E Z	¥	¥.	¥	M	W	¥	¥	N.	W.	MN	¥N	¥	¥	W.	MM	¥	¥	M	MN
Ž	NM	- N	N.	ž	WX	W	WN	×	Σ	MN	80.8	70.6	N.	69)	WN	236	×	ž	66.3
2	MN	MN	N.	N.	MN	M	¥	M	W	¥	¥	3	M	MN	MN	×	¥	20.0	MN
2	NM	MM	W	W	NM	NM	W	×	WN	WN	NW	×	WN	WN	MM	M	WN.	¥	NIM
2	WN	MM	W	W	WN	WN	W	WN	W	MN	W	¥	W	MM	MM	MM	WN	¥	WW
2	MN	MN	W	ž	¥	W	W	W	¥	¥	¥	¥	¥	MN	NM	MN	W	¥	WN
12/17/2010	777/2011	945/2011	1220/2011	3/30/2012	6472012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	6,77,2012	1240/2012	12/17/2010	7772011
WW-24DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	MW-34DA	WW-34DA	OS-MM	Q85-MM	GBE-MAN	NAW-38D	MW-38D	OW-38D	G8E-MW	NAW-38D	MW-39D

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

<0.0006	<0,000297	0.00006	<0,000178	<0.000641	<0.000128	<0.0000641	0,0000300	<0,0000297	<0.01	<0,0005	<0.0005	782000,0>	5000030>	<0,000128	-t0.000641	<0,000128	<0.0000641	<0.0000297	<0,0000297
NK	W	W	NM	NM	MN	MM	MN	MM	NM	WN	MM	W	WW	MM	M	Ŋ	MM	NM	MM
MN	MN	MM	NM	MN	MN	NM	MN	WW	NN	WX	NM	N	ΜN	×	W	MM	W	W	MM
NM	72.7	Z	MM	MN	MM	MM	NM	NM	NIM	MIN	NM	N	NM	MN	W.	NM	MN	MM	MM
 NM	MN	Z	MN	MM	MM	NM	NM	NM	NM	WW	WN	Ž	WW	MN	NN	MM	MM	WN	MM
 WN	W	¥	W	WN	W	W	W	W	WN	W.	WN	N.	Z	MN	MM	MM	×	WW	WW
N.	MA	2	WW	MA	MN	MIN	MM	WW	WN	¥	MM	X.	MN	NM	MA	MM	WN	NM	WW
MN	WN	N.	W.	MM	W	MM	MM	WN	⊠	WN	WN	×	MM	×2	MN	MM	WN	¥	MM
9/15/2011	12/20/2011	330/2012	6/7/2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	6772012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014
	10						ű E												
MW-39D	MW-39D	WW-39D	MW-38D	MW-39D	MW-39D	N#W-39D	CIBE-MAN	CIBE-WW	MW-43	MW-43	MW-43	MW-43	MW-43	MW-43	MW-43	MW-43	MW43	MW-43	MW-43
	77																		

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

\$0.0	90000>	<0.0005	<0.000297	<0.00003	<0.000128	<0.000641	<0.000128	<0.0000641	0.0000400.3	<0,0000297	N N	3	2	! ! 	¥	2	2	ž	MN
N.	N.	×.	×	N.	N.	XN	×	¥.	×	W	WW	2	Z	W	WW	N.	S.	2	MN
Σ Z	×	MN	×	×	WN	M	WW	Z	Z	×	×	Z	10,0	0,0016 J	<0.00147	0.00037 J	N	Z	MM
Z	×	×	ž	×	Σ	WN	×	Ž	2	WN	6.38	₹	22.0	- X	3.23	Ş	49.8	ž	WW
FIN	2	MN	₹	¥	WW	MN.	MN	₹	2	₹	0,006820		40.04	<0.0005	0,0016 J	<0,00007	WN	MN	MN.
	N	W	N N	WN	N.	W	WN	×	W	MM	MM		- N		MM	N.	N.	N	MM
	W	NM	W	N	W	WN	WN	×	W	WN	WN	Z	W	WN	WN	W	Ž	×	WN
W	W	MN	WN	AN.	MN	P	M	. W	- E	¥	W	¥	¥	MN	W	¥	ž	N.	MN
12/17/2010	777/2011	9/15/2011	12202011	3/30/2012	677/2012	12/10/2012	6/20/2013	125/2013	6/10/2014	12M0/2014	12/10/2014	12/17/2010	7772011	9/15/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	12/17/2010
MW-46	MW-46	MW-48	WW-46	MW-46	MW-46	MW-46	MW-46	MW-45	MWH46	MW-46	RW-1	RW-3	RM-3	RW-3	RW-3	RW.3	RW-3	RW-3	RW4

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

NM	W	WW	NM	NM	NIM	NM	WW	W	NM	W	MM	MN	MN	MN	NM	NM	NM	NM	N
NN	MM	MM	WN	NM	WW	NM	NW	MM	WN	WW	MM	WW	MN	NM	NW	WW	MN	NM	M
MM	NM	MM	NM	NM	NM	NM	WN	W	NM	MN	NN	NM	NN	NM	NM	MN	NW	NN	2
378	MN	387	NM	306	933	470	322	XX	290	567	203	MM	\$68	MN	429	398	464	418	4000
MM	MM	MN	NM	MM	MM	MM	NM	WN	WN	NM	NW	WW	WN	WW	NM	NIN	NM	Nik	
MM	NM	NM	MM	MM	MM	NM	WN	WN	MM	WN	MM	NW	NM	NM	WN	MM	NM	MM	į
NM	WW	MN	MM	MM	WW	MN	MM	XX	WW	×N	WN.	MM	W	WW	MM	MM	WN	W	711
MIN	MM	MA	NM	NM	NM	MM	MM	WN	NM	MM	WN	NM	WN	NM	NM	NM	NM	WN	T I
71/12011	B/15/2011	12/20/2011	3/30/2012	6/7/2012	12/10/2012	6/20/2013	12/5/2013	6/16/2014	12/10/2014	12/17/2010	7///2011	9/15/2011	12202011	3/30/2012	8/7/2012	12/10/2012	6/20/2013	12/5/2013	AH00004A
RW-4	RW-4	HW-4	RW-4	RW-4	RW.4	RW4	KW-4	RW-4	RW-4	RW-6	RW-6	RW-8	RW-6	RW-6	RWs6	KW-8	RW-8	RW-6	

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

MM	MM	¥	3	¥	¥	¥	MM	3	3	2	ž	ž	¥	M	¥	3	3	3	NM
W	NM	WN	¥N.	W	WW	NM	MM	W	W	W	NR	¥	ΨN	WM	WN	WN	W	2	MM
WZ.	MN	N.	ž	W	W	NM	NM	WN	¥	- N	N.	ž	W	W	EN	MN	N.	W	WN
617	MM	6.64	WN	6.08	NIM	37.4	WN	233	249	W	214	S	143	46,9	977	¥N.	40.7	Ž	59.0
NM	MM	<0,01	<0,0005	0.0025 J	0.0005	<0.000899	MM	WN	- N	MN.	MN	¥	MN	MN	₩.	<0.0005	0.0016 J	0.0002	0,90270 J
NM	MN	MM	W	NN.	MM	NM	NM	WN	W	W	W	₹	WN	WN	WN	NM	¥.	Z.	WN
NA	NM	MN	MN	WM	NM	NM	NM	WW	×	×	WN	Ž	WN	W.	¥N.	NW	₹	ž	MM
NM	MM	MM	MN	NN	NM	NM	NM	MN	MN	MN	WN	₹	WN	MN	MN	H.	N	N	MN
12/10/2014	12/17/2010	7772011	8415/2011	1220/2011	3/30/2012	847/2012	12/10/2012	12/17/2010	7772011	9/15/2011	1220/2011	3/30/2012	12/10/2014	12/17/2010	7772011	8/15/2011	1220/2011	3/30/2012	6/7/2012
RW-6	RW-7	RW-7	RW-7	RW-7	RW-7	RW-7	RW-7	RW-8	RW-8	RW-8	RW-8	8-M2	RW-8	RW-8	RW-9	RWLB	RW-8	RW-3	RW-9

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

	1																	
WN	<0.0005	<0.0005	0.0006 J	<0.00003	<0.000128	<0.000641	<0,000128	<0.0000641	<0.0000297	NM	<0.01	<0.0005	-0.0005	<0.000297	<0,00003	<0.000128	<0,000641	<0,000128
WN	NM	MN	MM	MM	MN	MM	MN	MIN	WN	MM	NM	MM	WW	MM	×	MN	¥	W.V.
WW	WN	MN	WW	WN	MM	WN	WN	WN	N	WW	M	WW	NM	W	NM	WN	WN	WN
NBA	NM	MM	WN	WN	MN	WW	NM	MM	MN	3,43	MN	MM	MM	NM	MM	NM	MA	W.
40.01	<0.01	<0.0005	0.0016 J	0.00013 J	WW	MM	WN	MN	NW	MM	40.01	<0.01	<0.0005	0,0035.J	90000	WW	WN	MN
NM	NM	MM	WN	WN	MN	WN	NM	WW	MN	WN	MM	WN	NM	WN	NM	NM	W	WN
MN	NM	NM	NM	NN	WN	MN	MM	WN	×	MN	N	W	WW	W.	MN	NM	WN	WW
×.	MN	MM	WN	MM	MN	MM	MM	WN	MM	NM	W.	MM	MM	WZ	MN	MM	MN	ΝÑ
12/17/2010	7772011	B/15/2011	12/20/2011	3/30/2012	6///2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	1772011	8/15/2011	12202011	3/30/2012	6/7/2012	12/10/2012	6/20/2013
RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	KW-10	RW-10	RW-11	RW-11	RW-11	RW-11	RW-11	RW-11	RW-11	RW-11
	12/17/2010 NM NM <0.01	12/17/2010 NIM	12/17/2010 NM	12/17/2010 NM NM NM -0,001 NM	12/17/2010 NM NM -0,001 NM	12172010	TYTEE11	12/172010	12/172010 NM NM NM NM C-0.01 NM	TOTEST NM	TOTOZOTO	TTT/2011	TTTEOTT	TTTP2017	TITION NAM	Totalian	The color of the	Titizania Nai

Table 3 Historical Groundwater Analytical Results Wilmington, North Carolina

	<0.0000297	<0.0000297	\$0.04	<0.0005	<0.0005	<0,000297	<0.00003	<0.000128	<0,000641	<0.000128	<0.0000641	-0,0000297	<0.0000297	¥	ž	¥.	<u>\$</u>	¥.	<0,01
	Σ <u>Σ</u>	¥	¥	WN	¥	¥	WW	¥N.	¥N	WN	WN	N.	WN	NM	¥	WN	WN	M	NM
:	ž ž	W	×	W.Z	×	W	MM	- A	WZ	MN	×	×	NM	MN	WN	MN	×	NN	NIM
	W. X	M	¥	MN.	×	W	MM	W	W	W	MN	W	MN	MN	MN	M	×	N.	NM
-	ž ž	¥	A.Or	<0.01	<0.0005	0,0167	0,00118	C.00350 J	0.00520	0,00140	MN	₹	MN	₹	N.	MN	W.	₹	MM
	ž ž	NIS	NIA	NM	W.	WN	MM	WN	W	NM	WN	WN	WW	MN	MW	MM	×	WW	MM
	MX X	¥	¥	MM	M	W	WN	W	¥	WN	W	W	WN	WN	WN	WN	W	WW	MN
	2 2	MN	M	MM	M	MS	MM	W	2	MA	M	¥	W	⊽	⊽	WN	<0.113	¥	MN
	6/10/2014	12/10/2014	12/17/2010	7.02011	9/15/2011	1220/2011	3/30/2012	877/2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/10/2014	12/17/2010	1102/111	BM5/2011	12202011	3/30/2012	12/17/2010
	KWW-17	RW-11	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-12	RW-16	RW-18	RW-18	RW-16	RW-16	RW-17

Table 3
Historical Groundwater Analytical Results
Wilmington, North Carolina

<0.0005	<0.0005	<0,000297	<0.00003	NM	MM	MN	NM	WN	NM	MN	NM	MM	NM	MM	NM	NM
WN	<0.0006	<0,000824	0.00017 J	NM	MN	WN	MM	MM	MN	MM	MN	W	NM	MN	WN	MN
MN	MM	NW	NM	WW	W	NM	NM	WM	WN	NM	WN	WW	MM	NM	NN	NM
MN	NM	MM	NIN	WW	MM	2230	NM	3080	MM	2380	2000	2620	2990	2730	2550	13.1
WN	WW	NM	NM	NM	MM	NA	NM	W	WW	WW	NN.	MN	WN	NM	NM	WW
WN	-20,0005	<0.000437	<0.00004	W	W	WW	MM	MM	WW	WN	MM	MM	MM	WN	WN	WN
NN	NM	MN	MN	MM	MM	×.	NM	MN	MM	NM	MN	WW	MM	MN	NN	NM
WN	MM	NM	NM	MM	MM	WN	NN	W	MM	MM	MM	WW	ΣN	NM	NM	NM
11/2011	9/15/2011	12/20/2011	3/30/2012	B/772012	12/17/2010	7772011	8/15/2011	12/20/2011	3/30/2012	8/7/2012	12/10/2012	6/20/2013	12/5/2013	6/10/2014	12/16/2014	12/10/2014
RW-17	RW-17	RW-17	RW-17	RW-17	RW-18	RW-18	KW-{8	RW-18	RW-18	RW-18	RW-18	RW-18	RW-18	RW-18	RW-18	RW-19

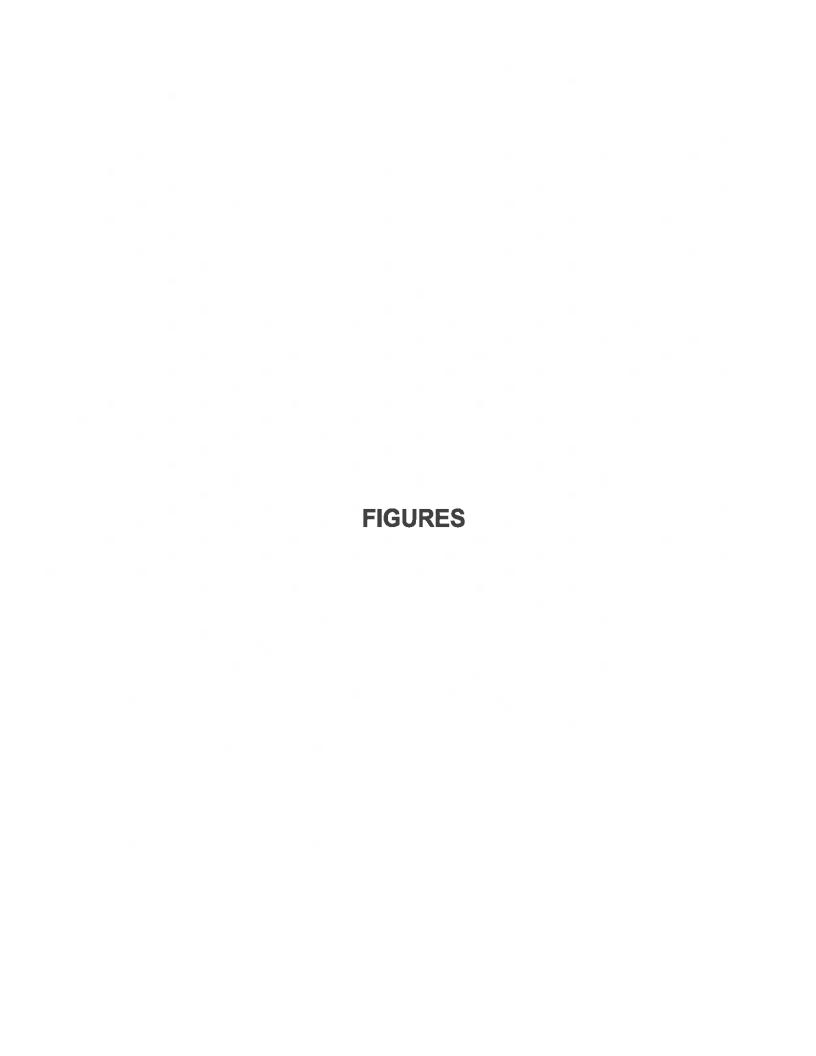
Notes:
For non-detect measuroments (<), the detection limit (Practical Quentitation Limit or PCAL) is issted.

For non-detect measuroments (<), the detection limit (Practical Quentitation Limit or PCAL) is issted.

Ingl. - miligrams per lifer or parts per million (ppm)

Concentrations that exceed exceed North Carolina 21. Groundwater Standards (April 2013) or NC 2B Surface Water Standards (May 2007)

J- Indicates the analytical result is an estimated concentration between the mothod detection limit and the laboratory method reporting limit.



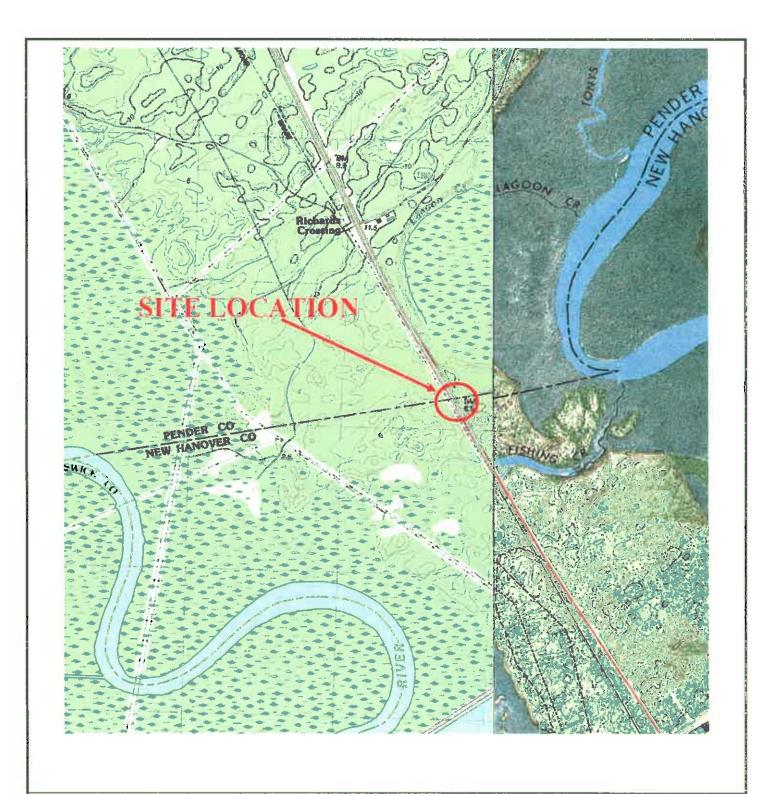


Figure 1 - Site Location Map

Source: USGS 7.5 Minute Topographic Map Leland, NC 1984

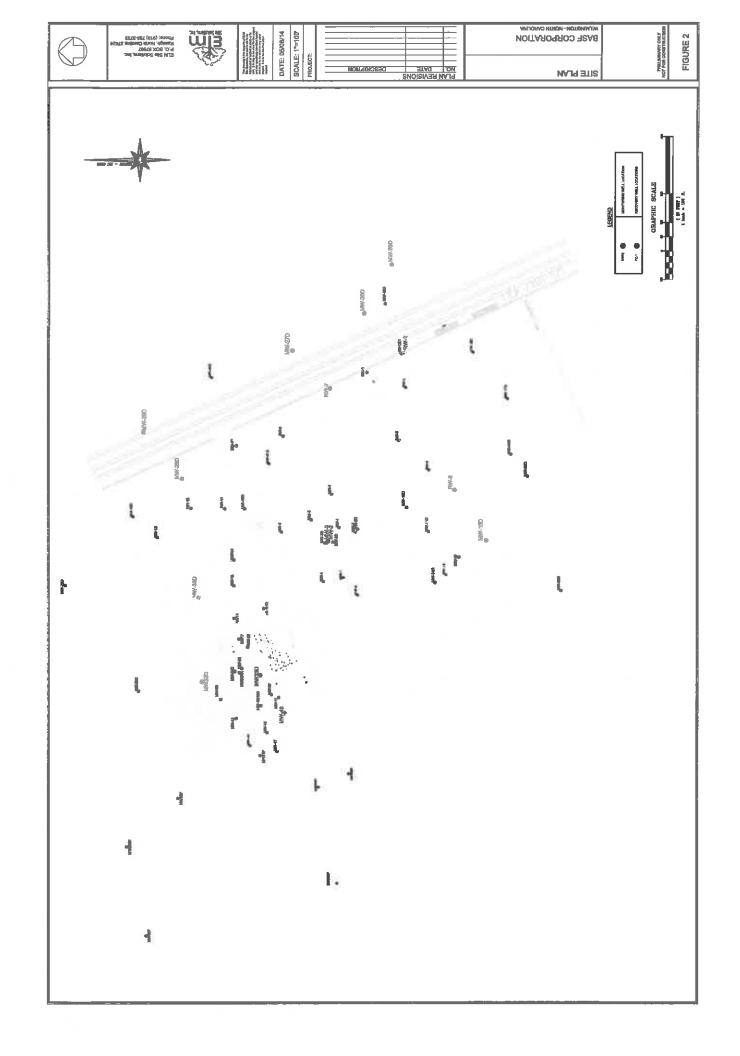
Scale: 1:24,000

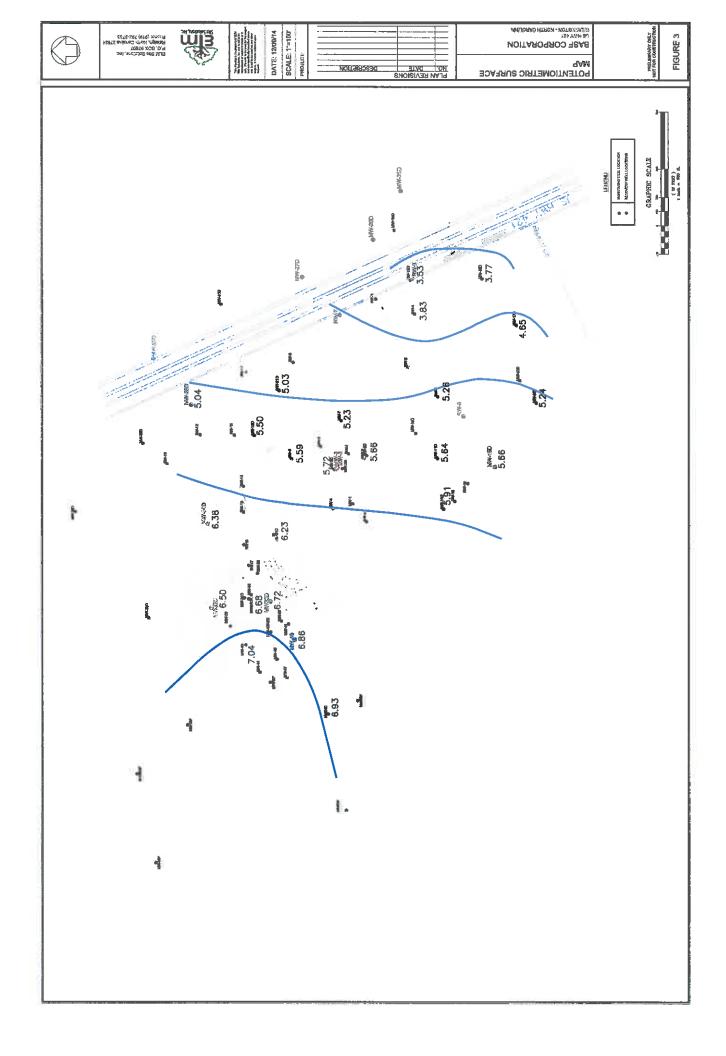


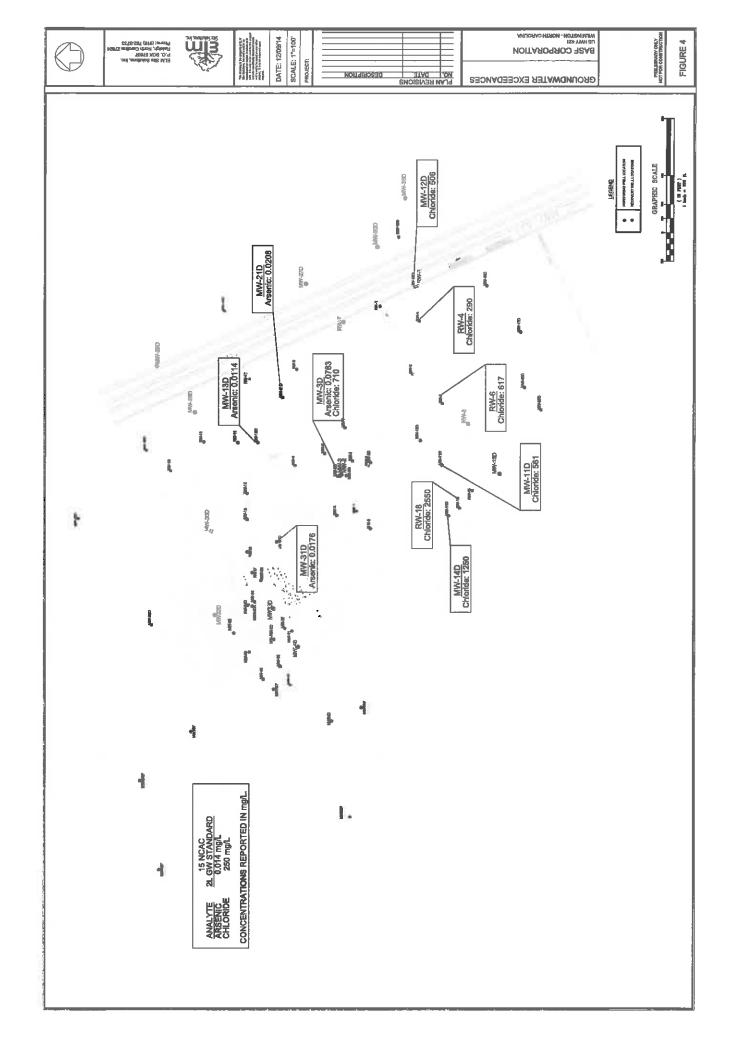


Site Name:

BASF Corporation Wilmington, North Carolina









Appendix A Field Data Sheets



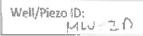


Client:	ba	>F				Dates	12-	11-14		_
Project Na	ime:					Proje	ct Number:			_
Site Locat	ion: L	SILKING	MALL			Start:		1045		am/pm
Weather (Conditions:	CLEAR	403	LIGHT	JUN 10	Finish	1:	1105		_am/pm
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Total Well	F VEL DATA: (Length:	(measurea Ji		<i>cosmy)</i> Tasing Material:	(N.S	e. Water C	elanan		
7050- 67210				-		# 4	Length (a-b			
. Water Tab epth:	ile	8.92	d	Casing Diameter	r: <u>\</u>		f. Calculate Volume:	ed Well		
WELL PUP	RGING DATA									
a. Purge I	Method:		16N - F	FCV						
	ançê Criteria									
			-	· (@			volumes) _			
				10	N	TUs .				
	- Stabilizatio	n of Parame	ters			94				
c. Field To	esting Equipp	nent Used			1					
	Make	151		Model	6060		Serial N	lumber	-	
	esting Equipa									
	Volume		<u> </u>	Specific	Turbidity	Dissolved	Daygen			
Time	Removed	T" (C/F)	ρH	Conductivity	(NTUs)	Ebyygen	Reduction Potential	Colos	Odor	Other
1050	(gal)	17.62	6:11	0,404	2.4	12,35	-419	CLEAR		1
1053		16 60	6:11	0.088	The second second second	13.32	20.5	6	haladhan ar	
1056		18.56		D. C. C. 4-		111.103	36.4	1,		1
1059		16.55	Lille	0.007	13.19	11, 82	44.4	4.1		
1102	1.5	18 62	6.18	0075	32	10.62	49.9	11		
					<u> </u>					
					a. ba	=				-
				Ì	L	L	3			1
	ance criteria Has required		n remove		Yes No	N/A I □	and the same of th			
	Has required					ĺ				
	Have parame									
	If No or N/A									
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			. (tech for	NA O					
SAMPLE (CONTRACTOR OF THE PARTY OF THE	Container		No. of Contain		servation	A	nalysis		Time
	- 7.	Sch M		1		NU3		はルツー		105
757	- 6	700				20024 /3				Branch - Coff
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man and a		PVM					-	:		
1 to 2			-	-					_ I	
Additiona	Comments:									
	-	VL11		***			12-11-	. Z == ==		
Signature	t (S	Arri			. Da	te:	F 6- 111"	1 "		



Mall/Binn	15%	7
Well/Piezo	BP-6	

Client: 1 >	ASE			Bate	- 12:	-12-14		
Project Name:					ect Number:			_
Clos I seed as 1 .	Julian State	ron I				0855		am/pm
Westher Conditions	11 EDAL V	Dane Raik L	16.465			032		am/pm
Weather Conditions:	ALTON INT	11.1. 2	DUNIO	0 91414				
WATER LEVEL DATA								
Total Well Length:		G. Casing Materials	PV	<u> </u>	e. Water C			
Water Table	17.86	d. Casing Diamete	r:i	77/	i.ength (a-b f. Calculate Volume:	•		
WELL PURGING DAT	Ά:							
a. Purge Method: _		FLOW						
b. Acceptance Criter	** ***							
	n Required Purge Vo	dume (@	NA	well	volumes)			
- Marrimur	n Allowable Turbidi	tv/101	N.					
	tion of Parameters							
c. Field Testing Equi		14,4						
Make		Model _	1.836		Serial I	Number		
d. Field Testing Equi								
u. I me iesung equi	fattactic content octors s							
Yolume Time Removed	1 1" (C/F) p	Specific Conductivity	Turbidity (NTUs)	Dissolved Oxygen	Oxygen Reduction Potential	Color	Odor	Other
3303 0	17,92 6	12. 12.421	Z5.9	c .64	-5.€	CLEASI		1
	16.36	7 7 7	12.6	6.70	-4.0	- 11		
433	17.41		46	0.74	- 3 2			
116 18	16.4< L		4.1.	8.73	- 3,0			
(114:							_	
					1	Att.		
					-			1
						l i.		
Has require Have parar	ia posyfail ed volume been ren ed turbidity been re meters stabilized 'A – Explain below		Yes No					
SAMPLE COLLECTION	N: Method:	ferci po	m C				-	
Sample ID	Container Type	No. of Contain	ers Pro	Servation	-	unalysis		Time 7 2-c
AF-L	525 ML	1		47-10 S		HEIRING &		4-6.
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	***		a did a Visal Mi				_i	
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Additional Comment	142					_		
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Signature:	IEVUT.		Da	te:1	2-12-1	4		





Project Name: Site Location: Weather Conditions: CLEFFIC TO FLAM Water Column Longth (a-b); Dotal Well Length: C. Casing Material: Depth: Well PURGING DATA: a. Purge Method:		im/pm
Water Level DATA: (measured from top of casing) 1. Total Well Length: 2. Water Table 2. Casing Material: 3. Water Table 3. Water Table 4. Casing Diameter: 4. Water Column 1. Length (a-b); 5. Calculated Well Volumn. WELL PURGING DATA: 3. Purge Method: 4. Maximum Required Purge Volume (@		
Water Level Data: (measured from top of casing) Total Well Length: Water Table	. a.	m/pm
Total Well Length: Water Table Water Table / 0		
a. Purge Method: LCIV - FLCIV b. Acceptance Criteria: - Minimum Required Purge Volume (@		
a. Purge Method: LCIV - FLCAI b. Acceptance Criteria: - Minimum Required Purge Volume (@ JA well volumes) - Maximum Allowable Turbidity C NTUS - Stabilization of Parameters LC NTUS - Make YS Model Serial Number d. Field Testing Equipment Calibration Documentation Time Removed TC(F) pH Specific Turbidity Dissolved Reduction Potential Serial Number LCIV PH Specific Turbidity Dissolved Reduction Potential		
b. Acceptance Criteria: - Minimum Required Purge Volume (@		
- Maximum Allowable Turbidity		
- Maximum Allowable Turbidity		
C. Field Testing Equipment Used Make UST Model Serial Number d. Field Testing Equipment Calibration Documentation Time Removed (gal) PH Specific Turbulity (NTUs) Dissolved Oxygen Reduction Fotential 1547 O 19.00 (a.18 0.376 57.00 2.37 16.0 0.496 15.5 16.0 0.496 15.0 0.496		
C. Field Testing Equipment Used Make		
Make		
Volume Removed (gal) 1547 C 17.00 [a.18 9.308 57.00 2.37 16.6 Color Potential 1547 C 17.00 [a.18 9.308 57.00 2.37 16.6 Color Potential 1553 17.00 [a.18 9.307 2.4.3 2.70 16.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		
Time Removed (gal) PH Speaks Turbuility Dissolved (gal) Potential		
SAT C 19.00 6.16 P.308 37.00 2.37 16.00 C 15.00 15.00 16.10 17.00 15.00 16.10 17.00 15.00	Odor	Other
Acceptance criteria pass/fail Has required volume been removed Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PCC ACM Sample 1D Container Type No. of Containers Preservation Analysis		I140
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below Sample ID Container Type No. of Containers Preservation Analysis		
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PC-C ACM Sample ID Container Type No. of Containers Preservation Analysis		
Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PCC ACMA Sample ID Container Type No. of Containers Preservation Analysis	-	
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PC-C-1 ACM/C Sample ID Container Type No. of Containers Preservation Analysis		
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PC-C-1 ACM/C Sample ID Container Type No. of Containers Preservation Analysis		
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PC-C-1 ACM/C Sample ID Container Type No. of Containers Preservation Analysis		
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: PC-C-1 ACM/C Sample ID Container Type No. of Containers Preservation Analysis		
Sample ID Container Type No. of Containers Preservation Analysis		
Sample ID Container Type No. of Containers Preservation Analysis		
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	The	
175 ML NICKE CHLORIDE		
Additional Comments:		
Signature: 12-11-14		

Madi Interes	LPL.		
Well/Piezo	Mile	-3A	



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	Project Na	me:			-Mary			ect Number:		_	
	Site Locati	on: U	CILMINO	NUM			Star	tl	1610		am/pm
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1	b. Water Tabi		932		Casing Drameter		2.11	Length (a f f. Calculate Volume:	a)·		
,	Depth:							TOTAL !			
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				HW	(0)		%				
		sting Equipm			Model			Sexial I	lumber		
			nent Calibrati								
		Volume	TT					Oxygen	1		
	Time	Removed (gal)	T* (C/F)	pН	Specific Conductivity	Turbidity (NEUs)	Dissolved Oxygen	Reduction Potential	Color	Odor	Other
	1621	C	19.72	7.17	1.761	13.9	0.26		(1641)		
	16:24		19,75	7114	1.942	12.5	CAF.	-144	- (1		
	16321			7.43	2,00	27,5		-154	- 11		
	1636			7.14	2.271	2÷. 7		-154	- 14		
	16-4-1			7.14	2.3571	14.5		-156		_	
	1634	7 8		7.14	2.376	7.3		4 7 7	11		
	1647	2/0	17.07	7113	2,379	_/, >	0.11		5.4		
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	ance Criteri									
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d. Field T	esting Equip	ment Calibra	tion Doci	imentation						
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32 20		שניבו	4.95	0.224	16.2	2.35	14,3	44		-
0156	2.0	17.74	6.93		12.5°	3 45	24.2	1.		
jeol.	- E-, C-	1 / 1 (4)								1
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SAMPLE (COLLECTION	l: Meth	iod:	Perf Pe	MI (P					
Samp		Container	ype	No. of Contains	ers Pre	servation		arialysis		Time
Mu	-4-	SUC: M			_ +	40.1	A-C	567 J. C.		14.7
				**						-
-		-					1			
-				DOLLARDS No. 20. at						
			1							
			Č							
Additiona	I Comment	5:								
		7-000					12 12.	-1.2 =		
	Y .				Da	te:	16 16.	1 4		





Client:	BA	5 F				Date	: 12-1	2-14		
Project N							ect Number			
Site Local	ion: La	Juditini.	ASTERNA .	· · · · · · · · · · · · · · · · · · ·						am/pm
Weather	Conditions:	1 Leng	4.0	s, waith	arriva	Einis	h	1200		am/um
	_		F 1							
	EVEL DATA: (0	17				
Total Wel	Length:			Casing Material:		V(e. Water (Longth (a-l			
. Water fal	ole	13.60	1- d.	Casing Diameter	: 2	-	f. Calculat			
epth:				**			Valume:	-		
various assista	bellie bawa.									
	RGING DATA:	1 7	JW-F	Licins						
	Method:		- 9	C-0 - 4						
u. Accept	ance Criteria:	: Descripted Doo	ene Vedroe	e (@	NIA.	wall	walnimach			
				L C			TORUH (CS)			
				16						
	esting Equipn		COLUMN TO THE PARTY OF THE PART							
e. Heid ii	Make	15 I		Model			Serial I	Number		
	esting Equipo									
u. I ICIGI I	rancib referitor	ILLIIL GUIIDIO								
-	Volume	ì		Specific	Turbidity	Dissolved	Dxygen			
Time	Removed	T' {C/F}	pH	Conductivity	(NTUs)	Oxygen	Reduction	Color	Odor	Other
4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(691)	1 2 2 1 5	7		2.7	2.46	Potential - 41.	CLEAC		1
1150	0	19-61	6.97	0.166	0.1	2.58	-22.5	(7	_	
1126		19.94	6,94	0.165	0.4	2.51	-12.6			
1159	1.0	19.95	697	0.45	i. 2	2,82	- Pile			
1121										
								-		
2 1 -		4								

e. Accept	ance criteria Has required Has required Have paramo If No or N/A	volume bed turbidity be sters stabiliz	ren reache ed	d	Yes No					

SAMPLL (COLLECTION:	Meth	ned:f	eci Pc	SHE'			}		
Sama	ele ID	Container	Type	No. of Contain	ers Pro	servation		Analysis		Time
14:2	-(500 M	1-		H	NO 13	A-C	ح ال∓عر	13	2-6-6
	-									
		-							ma-4 - 1	
		-		_	-		1			
-										
Additiona	il Comments:									
								4		
Signature	;1	7.7	4"		Da	te:11	-12-1	4		

Well/Piezo	10:MW-7	
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Client:	BASE				Date	: (2-0	1-14		
Project Name: Site Location:	h						1		
Site Location:	WIL MIN	Samo			Start	: 13	2-4-5		- am/pm
Weather Condition							1305		am/pm
						1			
WATER LEVEL DAT	A: (measured fr	om top of	casing)	_					
Total Well Length:		C. (Tasing Material:	1	NC.	e. Water (
. Water Table	7.2.5	٠ ١ ١	Casing Diameter	. 2	4.4	Length (a.) f. Calculat			
epith:			and a mile			Volume:	New Yorks		
WELL PURGING D	4	1 6.							
a. Purge Method:		w-fe	-67~						
 b. Acceptance Crit 				C.N.					
	um Required Pur		E .			volumes)			
	um Allowable Tu				ľUs				
	ation of Paramet	ers	10		%				
c. Field Testing Eq									
	YSI					Serial I	Number		
d. Field Testing Eq	uipment Calibrat	ion Docur	nestation						
- spranker				1	Т	O	1		
Time Kemov	_	pН	Specific	Turbidity	Dissolved	Oxygen Reduction	Color	Odor	Other
[gal]		pri i	Conductivity	(NTUS)	Deygen	Potential			
1252 0	19,50	5.17	0,036	2.5	10.77	42.4	C PART		
ريارة <u>حي</u>	19.41			1.6	(C.16)	104.7	15		
3C:0	19.37	5.04		16.6	10.65	107.8			
1303 1.5	10.37	5.02	11.17.39	2.0=.	10.54	113	11		
					-		[
-v ₂									1
	1000								
14.							2		
e. Acceptance crit				Yes No	N/A				
	ired volume bee								
Has requ	ired turbidity be	en reache	ď						
	ameters stabiliza								
If No or I	i/A – Expiain bel	DW.							
ALIMALE AGA LEAGU	on Mak		Per P	West D					
SAMPLE COLLECTI				and the second second second		F	inalysis	-	Time
Sample ID	Container T		io. of Contain		servation		IL THALL		30.5
1- MM	125 M			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1115 NO.3		CINE.	4.7	7 36.3
	E.3 199			1	- per	1 2000	11 1 1 1 1 1 W		
			44.44						
-									
Tareful Billion						İ	The state of the s		
						1			
Additional Commo	nts:								
						1 1 1 1	1.71		
Signature:	TOWN	d.		Dat	te:	12-11-			





Client:	6	ASE				Date	: 12-	11-14		
Project N	ame:					Proje	ect Number:			
						Start	:	1265		am/pm
Weather	Conditions:	Me Sitty	CHEMA	2.405,1	HEALT.	Finis	h:	(23)	5	am/pm
					uth-40					
WATERL	EVEL DATA:	(measured fi				Puc				
a. Total Well	Length:			Casing Material:			e. Water t Length (a-)			
b. Water Tab	ole	23.60	d.	Casing Diameter	. 2	e la	f. Calculat			
Depth:				*			Volume:			
WELL PUT	rging Data	<u> </u>	ad J E	Lacial						
			: PM - I	G- 11 - 14			-			
	tance Criteria	a: Required Pu	ero Moleum	e(@	Δ	sunfl	volumes} _			
				(10)		TUs	1 3010(110.3)			
	- Makimuni	ANDWADIC II	And	1C	- 14	%				
	- Stabilizativ esting Equip		:00:13	14						
C. FIERO II	Make	りくて		Model			Serial P	kumber		
		ment Calibra	tian Docu	_						
G. FRANCI	ramig rdesp	STATE OF THE STATE OF	,10,11 DO,01							
* * 11-48	Volume		-	Specific	Turbidity	Dissolved	Охудея			
Time	Removed	** (C/F)	рH	Conductivity	(NTUS)	Oxygen	Reduction	Color	Cldor	Other
100 mm mm	(ggal)	1.0 c-1	d series	€.47L	31.4	2.84	Potential	(-एस)स्य		
1217	- 0	18.57	6.70	0.41.5	- 71.5	2.70	- 24	14		
1225		19.01	I la	0.460	7.9	2.44	8.7	f #-		
1221		11, 34	6,57	0.454	2.0	2.41	12,3	11		
1232	2,0	19.29	1. 54.	0.454	4.3	2.52	7.7	И		
	1									ļ
			<u>!</u>					1		1
e. Accept	tance criteria	pass/fall			Yes No	N/A				
	Has required	d volume bed	n remove	Ь						
	Has required	d turbidity be	en reache	d						
	Have param	eters stabiliz	ed							
	If No or N/A	– Explain be	low			. —				
		_								
	-0410000000	A 6-44	ds	Pers Per	me -					
		: Meti		No. of Contain	And the contract of the contra	servation	7	nalysis	-	Time
Same	ole ID	Container 5		NO. OF COLLEGE		40)		ENIC	- 13	235
With	-30	125			7	1675		COMO		
						NA PA				
										-
Addition:	d Comments									
Classica		TIM	1/1	-	Do	rte:	12-11-	-1/1.		
Signature		1						1		

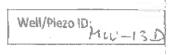


Client:B	RSF		Date	: 12-1	1-14	
Project Name:			Proj	ect Number:		
	ALMINGTEN .			ta/	110	am/pm
Weather Condition	S VOORN CLEA	6,40 LIZE	Finis	h:	1200	am/pm
	A: (measured from top of		-			
. Total Well Length:		Casing Material:	AVE	e. Water Colum	oris .	
r. Water Table Replin:	7.67 d	Casing Diameter:	-2"	Length (a-b): f. Colculated W Volume:	ell	
WELL PURGING DA	ITA:	45 - 4				
b. Acoeptance Crit		7000				
	im Required Purge Volum	NIA	- wel	volumes)		
- Maying	am Allowable Turbidity	10	MTUs	,	and the	
	ation of Parameters					
c. Field Testing Equ						
	45I	Model		Serial Num	ber	
	uipment Calibration Docu					
Time Remove	1 1		bidity Dissolved	1	Color Ode	or Other
(gal)			5 2.49	Potential -23.t. (L	EAG	
1116 0	16.32 6.64	The second secon	-7 1.32	- 200	ELVIE	
1126	17.64 6.6	15.31	3 132	- 97.4	i)	
1130	7,6170	0.962 2	1.81 1.27	3	11	
1135	17.4 7.1c	1.401 74	9 1.17	- 135	*1	
1140	17.36 7.12	LETTER BEAUTIFUL CO.	1.15	- 144	11	
1145	17.26 7.13		F.O. 1-13.	- 145	11	
1150 215	17.55 17.14	2.122 12	3 1.13	-148	1*	
e. Acceptance crit	eria pass/fait Ired volume been remove	Yes -	No N/A	-		
	red turbidity been reache					
·	ameters stabilized					
	I/A – Explain below					
CAMPLE COLLECTI	DN: Method:	Pump				
Sample ID		No. of Containers	Preservation	Analy	/sis	Time
Mrg-J/O	12.5 /12		NONE	CHLLY		200:
11117				1		-
- 37						
					1	
				7		
Additional Comme	nts:					
	rub tum w Millionschie					
Signature:	TOUT.		Date: 12	-11-14		
-						



Wall-Diagon Inc.		
Well/Piezo ID:		
Batter can	ä	- 0
MW	J	6-el 2

Project Name:	CLEAR, AC			Proje Start	: 2- ect Number: : 0	725		am/pm am/pm
	? 14	c. Casing Material:		<u>C</u>	e. Water Co Length (a-b) f Calculate Volume:):		
b. Acceptance Criter - Minimur - Maximur - Stabilizat c. Field Testing Equi	Libir - Fi n Required Purge Volum n Allowable Turbidity tion of Parameters	me (@	NT	us %	volumes) Serial N	umber		
Has require Have parar	16.92 6.88 17.49 6.7 17.33 6.59 17.56 6.96 16.96 7.0 16.15 7.14 16.60 7.14	2. C. 172 1. C. 336 2. C. 7 2. 1. 6.3) 4. 1. 7. 5 1. 7. 5	12,2	0.02	Oxygen Reduction Potential 12.77 -2.1 -57.54 -131 -131 -131	Color	Odor	Other
SAMPLE COLLECTION Sample ID MICO - 12-1	Container Type	FEEL PO	rs Presi	ervation	An CHLC	alysis CINC		ime Orb
Signature:	TOVILI .		Date	1.2	-16 14			





Project Number: Start Ide 0.5	Client:	SASE			Date	: 12-	9-14-		
Weather Conditions: WATER LEVEL DATA: Impeasured from top of casing) Intal Well Longitic	Project Name:	LUILHINGT	ZM			ect Number:			
MATER LEVEL DATA: (measured from top of casing) Total Well Longlite	Site Location:				Stari	:/	605		am/pm
Total Well Longille	Weather Conditions				Finis	h:/	640		
WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Miaimum Required Purge Volume (@) - Maximum Allowable Turbidity - Model - Stabilization of Perameters - Field Testing Equipment Used Make - J. J. - Well volumes - Stabilization of Perameters - C. Field Testing Equipment Used Make - J. J. - Wolume - Removed - Remove	WATER LEVEL DATA								
a. Purge Method: b. Acceptance Critoria: - Maximum Allowable Turbidity - Stabilization of Parameters - Minimum Required Purge Volume (@	k Water Table Jepth:	11,60	d. Casing Diameter	: <u>2</u>	11	f. Calculate	-		
b. Acceptance Criteria: - Minimum Required Purge Volume (&			_						
- Minimum Required Purge Volume (@	a. Purge Method: _	ししいい	- FLOW						
- Maximum Allowable Turbidity									
Stabilization of Perameters / C	- Minimur	n Required Purge Volu	nue (@	NA	well	volumes) \pm			
C. Field Testing Equipment Used Make 45 F Model Serial Number d. Field Testing Equipment Calibration Documentation Time Removed T(C/F) pH Specific Turbridity Overgeo Reduction Color Odor Other (gal) [6]									
Make	- Stabilizat	tion of Perameters _	10	-	%				
d. Field Testing Equipment Calibration Documentation Time Volume Removed T (C/F) pH Specific Turbrility Dissolved Oregon Reduction Option Other									
Volume Removed F (C/F) pH Specific Turbidity Dissolved Origen Reduction Odor Other	, , , , , , , , , , , , , , , , , , , ,					Serial N	lumber 🚃		
Time Removed T (C/F) pH Conductivity Turbully Oxygen	d. Field Testing Equi	pment Calibration Do	cumentation						
Time Removed T (C/F) pH Conductivity Turbully Oxygen	1 Parls and at			A dat who descripts	r representation	(Sharanan			
C C C C C C C C C C	Time Removed	T*(C/F) pH				Reduction	Color	Odor	Other
	WIN C	20,00 1,1	9 6,255		0.13			4-	
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below Sample ID Container Type No. of Containers Preservation Analysis Time FW - 13 D 500 ML I I I I I I I I I I I I I I I I I I	1621		5 0,2631	21.4			3.4	Betw	
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below Sample ID Container Type No. of Containers Preservation Analysis Time FW - 13 D 500 ML I I I I I I I I I I I I I I I I I I	16.24	20,24 7.1	1 0.275		100 / 100 / 100 / 100		H [
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters statilized If No or N/A - Explain below Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 5 00 ML I I I I I I I I I I I I I I I I I I		26.24 3.24	t bike!			make and a second of the second			
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FUCH PLMP Sample ID Container Type No. of Containers Preservation Analysis Time PLM 13 D 500 ML I III D 5 MC MC Additional Comments:		20 24 1.31							-
Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FUCA PLMA Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I I FUD S ACCUMANT I FOR A CONTAINER STATE ST	1621 6.0	10,00 14	7 0 126	(2). 1	LLE.	-14-7	11		1
Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FUCA PLMA Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I I FUD S ACCUMANT I FOR A CONTAINER STATE ST			1						
Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FUCA PLMA Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I I FUD S ACCUMANT I FOR A CONTAINER STATE ST			- A		ha da				-
Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FECA FLMA Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I III-D , Africa 16-44				res No	N/A				
Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FCC1 FLMP Sample ID Container Type No. of Containers Preservation Analysis Time PIW - 13 D 500 ML I I I I I I I I I I I I I I I I I I									
SAMPLE COLLECTION: Method: FUC.1 FLMP Sample ID Container Type No. of Containers Preservation Analysis Time MW-13 D 500 ML 1 147-03 According 162-44	•	-	[E[#]						
Sample ID Container Type No. of Containers Preservation Analysis Time Market Ma	•								
Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I III-D S ACSINIC ID 4L Additional Comments:	If No of N/.	A Explain below							
Sample ID Container Type No. of Containers Preservation Analysis Time PIN - 13 D 500 ML I III-D S ACSINIC ID 4L Additional Comments:	-								
Additional Comments:	SAMPLE COLLECTION	V: Method:	feren f	INMP		.1:09-1		p-	
Additional Comments:	Sample ID	Container Type	No. of Contains					0.00	Time
3 - 6 - 14	MW-130	500 ML	i	1 1+	F1035	460	EIPS: C	16	741
3 - 6 - 14									
3 - 6 - 14	St. Constitution of the Co			-			-		
3 - 6 - 14			· · · · · · · · · · · · · · · · · · ·				that e.		
3 - 6 - 14					erro na fadinali e				
3 - 6 - 14				The state of the s					
3 - 6 - 1 4									~
3 - 6 - 14	Additional Comment	5;					*****		
Signature: Date: 12=9-14							on w		
	Signature:	TOMT.		Dat	e:	12-9-	14		



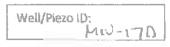
					-
Well/Piezo	1D:				1
		LAU	-!	40	
	1 9	_	_	1 9 1	_

Client:	B	SF				Date	11-	11-14		
	ате:				-		ect Number:			
Site Locat	ion: (A)	IT. MINISTE	775			Starr		1950		am/pm
Weather	Conditions:	CLEAG	40	LIGHT	BEGINA	Finis		104	C	am/pm
				7						
WATER LI	VEL DATA:	(measured fro.	m top oj	casing)	0	1				
a. Total Well	Length:		Ç,	Casing Material:		VC.	e. Water C			
b. Water Tab	do	6.24	.4	Casing Diameter		_	Length (a b f. Calculate			
o, svater rad Depth:	117	UNITED TO	ш.	Casing Diamete			Volume:	Marrien		
WELL PUT	rging data	λt:		- 1						
a. Purge l			na -	FLOW						
	ance Criteria			6.	T .					
	- Minimum	Required Purg	e Volum	e (@	J Δ.	wel	volumes) =			
	- Maximum	Allowable Tur	bidity		N	ΠUs				
	- Stabilizatio	on of Parameto	ers	110		%				
	esting Equip									
	Make	457		Model			Serial F	tumber		_
d. Field Ti	esting Equip	ment Calibratio	on Docu	mentation						
Time	Volume Removed	T (C/F)	рН	Specific	Turbidity	Dissolved	Oxygen :	Color	Odor	Other
TITTIE	(gal)	1 (0/1)	pin	Conductivity	(NTUS)	Охудеп	Potential	20101		
0957	7)	16.05	6.62	1.204	30,6	4.52	-8.7	CLETH4	-	
100%			66	1.2.14	7.3	1.42	-100			
1007		18.60	6.93	4-249	36.4	0.73	-135			
1012		n.65 i	-98	4.34-8	39.9	0.65	- 14-3	- Is		-
1017			4.	4.255	40.€	10.69	- 144	1		
1022			7, 00		3c .7	0.72	=14.5 -143	1/	,	-
1027			6.79	4.140	21.9	0.78	-143	9.9		
1032	A r.		7.00		18.3		-144	13		m-lant
e. Accept	4 C: ance criteria	pass/fail	7, OU	4:113	YES NO	D. FAYA	1 44	4.7		
		d volume been				٠				
		d turbidity bee		:d						
	Have param	eters stabilizet	1		W [
	If No or N/A	. – Explain belo	W							
*******	en i e erieski	14-4	al.	PECA PI	MIC					
	The second line of the second	Container Ty		No. of Contain		servation	Ι	nalysis		Time
Samp	-14-1	LONGAINER LY		MO. OL CORRENT		ONE.		LECIDE		4.0
		15-3 1-15		1						
		,								did walls, a
		-	T							
					_					
							-		-	
						_			-	_
Additiona	Comments									
		-50000			P-	, j	2-11-12	Y		
Signature	-	ENVI.			Da	te: /	[1 -, 1 ×	+-		

					_
137.	II/Piezo	LIB			
- VV 6	:II/Plezc	IU:			
		14. 5			
		Mus-	- 1	29 7 1	



	Client:				Date	12	-/0-14	+	
Site Location: Weather Conditions: CCSTLY CLOY TO SCENEY Water Table S. 3 & d. Casing Dismeter: 2 tength to by: Water Table S. 3 & d. Casing Dismeter: 2 tength to by: Water Table S. 3 & d. Casing Dismeter: 2 tength to by: Well PURGING DATA: a. Purge Mchod: D. Acceptance Criteria: Minimum Required Purge Volume (@ NA well volumes) Make Stabilization of Parameters L. Field Testing Equipment Used Make S. I S. Model C. S. Serial Number d. Field Testing Equipment Calibration Documentation Time Removed (gel) Acceptance Criteria pass/fail Fine Removed (Gel) Acceptance Criteria pass/fail Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below Sample ID Container Type Michael Collection: Method: Pecc 1 Purpl Sample ID Container Type No. of Containers Preservation NONE CLOCATON Acditional Comments:	Project Name:	WILLHINGTO	J.		Proje	ct Number:			
WATER LEVEL DATA: (measured from top of casing) Total Well Length: C. Casing Material: C. C					Start		420		am/pm
WATER LEVEL DATA: (measured from top of casing) Total Well rength: C. Casing Material: A. C. e. Water Column trough (is b): (Calculated Well poth: Volume: WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@ NA well volumes) - Maximum Allowable Turbicity	Weather Conditions:	MOSTLY OL	07 52,2	PERETA	Finis	1:			am/pm
Total Well Length: ### County Length Column ### Engine ### A Casing Diameter: ### A Casing Diamete				(
Water Table 5.36. d. Casing Diameter: 2. "Ecolouted Well appli: Veryth (a. h); Casing Diameter: 2. "Ecolouted Well Application of Casing Diameter: 2. "Ecolouted Well Volume: Veryth (a. h); Casing Michael Casing Coulouted Well Volume: Maximum Allowable Turbidity 1.0. NTUs - Maximum Allowable Turbidity 1.0. NTUs - Maximum Allowable Turbidity 1.0. NTUs - Stabilization of Parameters 1.0. % E. Field Testing Equipment Calibration Documentation Time Removed T(C/T) ph Specific Turbidity Dissolved Make 1.5. Maximum Allowable (NTUS) Onggen Reduction Color Odor Other (gill) - Time Removed T(C/T) ph Specific Turbidity Dissolved (NTUS) Onggen Reduction Color Odor Other (gill) - Time Removed T(C/T) ph Specific Turbidity Dissolved (NTUS) Onggen Reduction Color Odor Other (gill) - Time Removed T(C/T) ph Specific Turbidity Dissolved (NTUS) - Time (gill) - Time Removed T(C/T) ph Specific Turbidity Dissolved (NTUS) - Time (gill) - Time				ρ	57	e. Water (oluma		
WELL PURGING DATA: a. Purge Micthod: b. Acceptance Criteria: - Minimum Required Purge Volume (@ NA well volumes) - Maximum Allowable Turbidity 1C NTUS - Stabilization of Parameters c. Field Testing Equipment Used Make 15 I Model 6 5 C Serial Number d. Field Testing Equipment Calibration Documentation Time Removed T (C/T) ph Specific Turbidity Dissolved Reduction Color Debre Reduction Potential Parameters (gal) 7 C 13 A 5 16 C 19 7 7 2 3 1.0 6 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 5 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 4 3 C 19 39 5 24 6 2.0 9 1 1 1.1 6 7 7 7 6 5 C C Serial Number 5 Acceptance criteria pass/fail Yes No N/A Has required volume been removed Serial Number 4 Acceptance criteria pass/fail Yes No N/A Has required volume been removed Serial Number 5 Acceptance criteria pass/fail Yes No N/A Acce	s section of our disadelians		_						to California (1997)
a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@ NA well volumes) - Maximum Allowable Turbidity - Stabilization of Parameters - Model -	o. Water Table Depth:	2.36	d. Casing Diameter	- 2			ed Well		
b. Acceptance Criteria: - Minimum Required Purge Volume (@ NA well volumes) - Maximum Allowable Turbidity C NTUS - Stabilization of Parameters C NTUS - Model C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C	WELL PURGING DATA	la:							
b. Acceptance Criteria: - Minimum Required Purge Volume (@ NA well volumes) - Maximum Allowable Turbidity C NTUS - Stabilization of Parameters C NTUS - Model C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C C C Serial Number C NTUS - Model C	a. Purge Micthod:	LUW-	FLOW						
- Maximum Allowable Turbidity C NTUS Stabilization of Parameters C 94 C. Field Testing Equipment Used Make I I Model C C C Make I Model C Model C Make I Model C Model C Make I Model C Model C C Make I Model C Model C C Make I Model C Model C Make I Model C Model C C Make I Model C Model C Make I Model C Model C C Make I Model C Model C Model C Make I Model C Model C Model C Make I Model C Model C Model Model C Make I Model Model C Model Mo	b. Acceptance Criteri	a:							
Stabilization of Parameters Field Testing Equipment Used Make: 1 S I Model 6 S C Serial Number d. Held Jesting Equipment Calibration Documentation Time: Removed T (C/F) ph Specific Turbidity Dissolved (gai) Time: Removed T (C/F) ph Specific Turbidity Dissolved (gai) A 3 C (1 A S T C (1 T T Z Z Z I C (1 T T Z Z Z I C (1 T Z Z Z I Z I Z I Z I Z I Z I Z I Z I Z	- Minimum	Required Purge Volu	me (@	NUF	well	volumes)			
### Acceptance criteria pass/fail Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below #### Acceptance Criterian Pass/fail Has required furthed been removed Has required furthed fu	- Maximum	Allowable Turbidity	10	NT	Us				
Make USI Model CEC Serial Number d. Field Testing Equipment Calibration Documentation Time Removed (gail) Specific Conductivity (NTUs) Ongen Required Color Odor Other (gail) CEC (11.3) 5.74 C.2C. 11.77 Z.3 1.60 C.6.3 C.6.4 C.7.4 C.7	- Stabilizati	on of Parameters 🔔			%				
d. Field Testing Equipment Calibration Documentation Time Volume Removed T (C/F) pH Specific Condustrity (NTUS) Owygen Potential Potential Owygen Potential Owygen Potential Owygen Potential Owygen Potential Owygen Owygen Potential Owygen Potential Owygen Potential Owygen	a. Field Testing Equip	ment Used		A 82.09 M					
Time Removed (gai) T (C/F) pH Specific Conductivity (NTUS) Dissolved Oxygen Reduction Potential 42				2,040		Serial I	lumber		
Time Removed (gail) T (C/F) pH Conductivity (NTUs) Dissolved Reduction Color Odor Other (gail) T (C/F) pH Conductivity (NTUs) Oxygen Reduction Color Odor Other (gail) T (C/F) pH Conductivity (NTUs) Oxygen Reduction Color Odor Other (gail) T (C/F) pH Color (gail) T (G/F)	d. Field Testing Equip	ment Calibration Do	tumentation						
Time Removed (gail) T (C/F) pH Conductivity (NTUs) Dissolved Reduction Color Odor Other (gail) T (C/F) pH Conductivity (NTUs) Oxygen Reduction Color Odor Other (gail) T (C/F) pH Conductivity (NTUs) Oxygen Reduction Color Odor Other (gail) T (C/F) pH Color (gail) T (G/F)	Volume		-1			Oxugen		Andrew Commercial Comm	1.
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below SAMPLE COLLECTION: Method: FEX PUMP Sample ID Container Type No. of Containers No. of		T" (C/F) pH	1 '			to the	Color	Odor	Other
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A - Explain below Sample ID Container Type No. of Containers Preservation NONE CHECKON IME	(gal)						4/		
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below Sample ID Sample ID Container Type No. of Containers Preservation Analysis Time NONE Additional Comments:					1.00			4	-:
e. Acceptance criteria pass/fait Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A — Explain below SAMPLE COLLECTION: Method: FER Preservation Sample ID Container Type No. of Containers Preservation Analysis Time Preservation CHCERADE 143-77 Additional Comments:		113-313-3	4 0 .2C1		445				
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FEC PCMI Sample ID Container Type No. of Containers Preservation Analysis Time NONE CHICKEN 143-5								-	
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FECT PUMP Sample ID Container Type No. of Containers Preservation Analysis Time PICC – J STO 1 2 S ML NO STORY CHICKS DE 14-3-5	17.70 11.1		1 0						
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FECT PUMP Sample ID Container Type No. of Containers Preservation Analysis Time PICC – J STO 1 2 S ML NO STORY CHICKS DE 14-3-5	7/1								
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FECT PUMP Sample ID Container Type No. of Containers Preservation Analysis Time PICC – J STO 1 2 S ML NO STORY CHICKS DE 14-3-5									
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FECT PUMP Sample ID Container Type No. of Containers Preservation Analysis Time PICC – J STO 1 2 S ML NO STORY CHICKS DE 14-3-5		Name of the state		, ,					
Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FEC PCMP Sample ID Container Type No. of Containers Preservation Analysis Time NO - SO 125 ML No. of Containers	e. Acceptance criteria	a pass/fail		Yes No	N/A				
Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FECT PUNC Sample ID Container Type No. of Containers Preservation Analysis Time PUNC – ISD 125 ML 143-3 Additional Comments:	Has require	d volume been romo	ved						
SAMPLE COLLECTION: Method: FERT POWO Sample ID Container Type No. of Containers Preservation Analysis Time PINC-150 125 ML No. of Containers Preservation CH (EV2.10C 145.7) Additional Comments:	Has require	d turbidity been read	hed						
SAMPLE COLLECTION: Method: FEC. FUMP Sample ID Container Type No. of Containers Preservation Analysis Time PLUC - J S D 12 S ML NO. DE CHLERENCE 14-3-3 Additional Comments:	Have param	neters stabilized							
Sample ID Container Type No. of Containers Preservation Analysis Time PLUC - 15 D 125 ML NO. of Containers Preservation CHLERADE 14-3-3 Additional Comments:	If No or N/A	-Explain below		Callar -					
Sample ID Container Type No. of Containers Preservation Analysis Time PLUC - 15 D 125 ML NO. of Containers Preservation CHLERADE 14-3-3 Additional Comments:									
Sample ID Container Type No. of Containers Preservation Analysis Time PLUC - 15 D 125 ML NO. of Containers Preservation CHLERADE 14-3-3 Additional Comments:	CAMPIE COLLECTION	. Bastlende	PERLI PU	WHO					
Additional Comments:		A. Marian Santa Sa			Landation	4 4	nalysis		lime
Additional Comments:		125 141	1			CHI	EXPLANE	12	F3:5
				-				-	
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	Additional Comments	ne«				- L -	.+ **		
Signature: Date: 12-10-14	h 420 same announced and part sate sales 1 get 1 get.								
	Signature:	12001		Đai	p:	2-10	14	AM.	





Client:	BASE	-			Date	s _ 12.	10-14		
Project Name: _	Lululyedezze	JT-J			Proj	ect Number:			
Site Location:					Star	t:	1110		am/pm
Weather Conditio	ins: CLEA-12	525			Finis	:h:	1130		am/pm
	TA: (measured from		casing)						
Total Well Length:			lasing Material:	() <u>(2</u>	e. Water t			
. Water Table opth:	7.44	d. (Casing Diameter		4"	Length (a b f. Calculati Volume:			
WELL PURGING D	ATA:		. 1						
a. Purge Method.	Lei	<u>~i - f-</u>	LON						
 Acceptance Gri 				l a					
- Minim	rum Required Purge	Volume	(@	NA	wel	volumes _			
- Maxin	num Allowable Turb	idity	[1	N	TUs				
- Stabili	zation of Paramete	15	II		%				
c. Field Testing Ed									
Make _	YST		Model			Serial N	lumber 🚃		
d. Field Testing E	quipment Calibratio	n Docun	nentation						
Volum	ne i		Addition being state	í		Oxygen	Г <u> </u>		T-
Time Remo	ved T'(C/F)	pli	Specific Conductivity	Turbidity (NTUs)	Dissolved Oxygen	Reduction Potential	Color	Odor	Other
1117 0		0. Ck	0.363.	6:19	0.00	63.2	((694)		
11.51		- []	6.35:3	5.6		159.4.			
1134		0.00	0.303	57.7	0.00	54.4	1.1		1
1137 /.	5 15 86 6	1065	0.303	3 - 8	0,06.	60.4	iı		-
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						\$			-
		1							
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e. Acceptance cri				Yes No	N/A	,			
	uired volume been i				별				
	uired turbidity been		3						
	rameters stabilized								
If No or	N/A – Explain belov	M							
			0	ump -					
SAMPLE COLLECT		no. no. 100 2102	1 %	Teva		1 2 2 2 2 2	nalysis		Time
Sample ID	Container Typ		o. of Contain		servation		Lt CLDE		30
MW-170	1 125 ML		1			LA	Ar last Sa		
						-	1		
									1 1 170 0
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				1	_				
	ONUS.		~						
Additional Comm	ents:								
	TOVLI	7		D-	te:	2-10-	4		
Signature:	2,4001			27	ec. t				



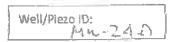
•		
	Well/Piezo ID:	
	1110-	ED

Client:			Adulti by Ade way - Algor,			Date	: 12-	10-14		
		CHING								
Site Locati	on:	CLEMA				Start	:	145		am/pm
Weather (Conditions:	TRANC	7 20,	A 1-74F W		Finis	hz	1245		am/pni
WATER LE a. Fotal Well		(measured fi		cosing) Casing Material	P	vc.	e. Water C			Jerni
b. Water Tab Depth:		5.70	e d.	Casing Diamete	e ()	1	Length (a-t f. Calculate Volume:	-		
WELL PUR	GING DATA			1						
a. Purge N	/lethod:	Lo	N-F	LOW						
,	ance Criteria				1.5					
		Required Pu			NA	200. 2	volumes) =			
				15	N	FU5				
		on of Paramo	eters	16,		76				
	sting Equip									
		15T		Model			Serial P	Number	-	
d. Field le	sting Equip	ment Calibra	tion Docu	mentation						
Time	Valume Removed	T" {C/F}	рН	Specific Conductivity	Turbidity (NEUs)	Dissolved Oxygen	Oxygen Reduction	Color	Ordor	Other
11.15.7	(gal)	110 44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Potential	CLEAG	-	4
11.52		18.49	244	0.071	5.7	0,12	56.5 23.9	Cleru	~	
158		18.93	5.65		4.8	0.13	79.4	1		
1201	1.0	16.14	5.64		生0-	7.4	80.7	12		E - 0 WHI
	Section 4.1.2 gi									
							- W - 4			
			<u> </u>					L		
	ance criteria				Yes No	N/A	_			
		t volume ber								
	•	turbidity bo		ध						
		eters stabiliz			1					
l	T No or N/A	 Explain be 	IOW							
-										
SAMPLE C	OLLECTION:	Meti	nad:			. 70				
Samp	e ID	Container '		No. of Contain		servation		nalysis		Time
14.00	7ES	125 M	Ļ.		P.	SME_	CHIL	いついり		205
		-14			1					
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	-							,		
									7	_
Additional	Comments		A		-				-	
fin er	A. or	. Will			n-	te: 12	-10-10	1		_
Signature.		-			1.Jd	4 li	- 1			



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	Well/Piezo	-	įų	_	2-1	Ô	

Client: 680	F			Date	: 12-1	2 14		
				Proje	ect Number:			
Site Location: [ACC	- HIP ATEN			Start	: <u>/</u>	CIP		m/pm
Weather Conditions:	CLEAR, 40	S LIGHT	MAIN		h:		a	m/pm
WATER LEVEL DATA: (/ . Total Well Length: . Water Table lepth/		of casing) . Casing Material: . Casing Diameter			e. Water (Length (a.k f. Calculat Volumr:	a)-		
a. Purge Method:	LON-	- L-C 353						
b. Acceptance Criteria:								
Minimum R	equired Purge Volu	me (40)	NA	well	volumes)			
Mavingum A	llowable Turbidity	143	NT	TUs				
- Franklingtin	of Parameters	10		96				
c. Field Testing Equipm								
Make	131	Model	6-1120		Serial 7	Number		
d. Field Testing Equipm								
ar three second sectors.								
Volume Time Removed	T'(C/F) pH	Specific Conductivity	Turbidity (NTUs)	Dissolved Oxygen	Oxygen Reduction Potential	Color	Odor	Other
(gal)	18.18 7.10	0,445	111.3	0, 11	-112.	Phis	RANGE	
1.24	10.80 7.0		97.4	0.11	-104	g k	1	
112.7	18 78 7.C	C 448	93.6	0.11	- 47			19
130 B.S	18,19 7.49	0.446	8LL	0.11	-111	4.5		
		<u> </u>						
		-					1	
		-					1	
							4	
Has required Have parame	valume been remay turbidity been read ters stabilized	red	Yes No					
if No or N/A -	-Liplain below							
SAMPLE COLLECTION:	Method:	REC P	MP					
Sample ID	Container Type	No. of Contain	ers Pre	servation		\nalysis		ime
WW-211)	प्राप्त ।यम		l H	1-10-3	/HC	SENIE		37.
	1						1	
							-	
Additional Comments:						-		
				7.0	EV W	ā		-
Signaturo:	TUVLU		_ Da	te:	-(2-			





Client:	BAS	F				Date:	12-	4-14	-	
	ime:L </th <th>UMI AL</th> <th>iner</th> <th></th> <th></th> <th>Proie</th> <th>ct Number:</th> <th></th> <th></th> <th></th>	UMI AL	iner			Proie	ct Number:			
City Laura						Start		3 an		am/pm
Weather (Conditions:	aver.	AST /	los, Bra	EN	Finisl	n:	325		am/pm
	_									
WATER LE	VEL DATA: (measured fr	om top of	ดตรกับ ต ้	Ο.					
. Total Well	Length:		c. 6	Casing Material:		<u>'C</u>	e. Water Co		San are a	
. Water Tab	la.	10.78	- I	Casing Diameter:	. 7	17	Length (a-b) £. Calculate			
, water raa epilir		Let bec.		Lesnig Manieum.	A	-	Volume:			
a kana										
WELL PUR	GING DATA:	a a	,	FUN						
a. Purge N	viethod:		JO NO -	FLLN						
b. Accept-	ance Criteria:				. ^					
	- Minimum R	lequired Pur	ge Volum	in the same of the	: A	well	volumes)			
	- Maximum A	Allowable Tu	arbidity			Us				
	- Stabilization	of Parame	ters			%				
c. Field Te	esting Equipm	ent Used								
	Make	YST		Model			Serial N	iumber		
d. Field Tr	esting Equipa	nent Calibra	tion Docu	mentation						
										_=
	Volume			Specific	Turbidity	Dissolved	Reduction	Cotor	Odor	Other
Time	Removed	T* (C/H)	pH	Conductivity	(NTUs)	Oxygen	Potential	11.061.091	Na fa eas	
1000		17.75	5.64	0.082	0.4-	0.17	166	LETH	-	
1305		16.55		0.003	0.0	17.22	737	4.1		
<u>/ つ [8]</u> /3/5		18 45	4.78		0.4	0.20	38.4	1.1		
7372	3.0.	18,42		0.089	0.4	0.18	90.1	1.9	Period on .	
	2 2 2 2 2	1.5								
						<u> </u>	<u> </u>			
- Banani	tance criteria	nace/fail			Yes No	N/A				
e. Accep	Has required		оп гелпом			1 0	And the second			
	Has required					1 1				
	Have parami				H/F	1 1				
	If No or N/A				L L	اسا ا				
	II NO OF NA	- angroni oc	.,							
					^					
SAMPLE	COLLECTION:	Meti	hod:	PEACH PL	WL					
	ole IÖ	Container		No. of Contain		eservation	A	nalysis		Time
	240	1560 P		1		47323	714	BULLER	13	25
4								-		
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								y James Market and Mar		
Addition	al Comments							and the Property of the State o		





	BA·					Date	; <u>12</u>	- 7-11	4	
Project Na	me:t	MILIGIN	477	f		Proj	ect Number:			
Site Locati	nn-				141		u	140		am/pm
Weather (Innditions:	DUBBECA	-ST 4	ol, sax	2-24	Finis	h:	1430		am/pm
WATER LE	VEL DATA:	(measured f	rom top of	casing)		A .				
. Total Well:	Length:			Casing Material		PUL	e. Water C			
. Water Tab epth:	le	27,20	<u> </u>	Casing Diamete	r: <u> </u>	211	f. Calculate Volume:	-	-	
WELL PUR	GING DATA	-								
a. Purge N	/lethod:	-	wind -	FLOW						
	ance Criteria									
-	Minimum	Required Pur	ge Volum		NA	wel	volumes)			
	Maximum	Allowable To	irbidity	10		ΓUs				
-	Stabilizatio	n of Parame	ters	. 10		56				
c. Field to	sting Fouier	ment Used								
1	Make	1SI		Model	6820	,	Serial h	lumber		
		ment Calibra								
ar rena re	-marital modernia.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	Volume	1		*	Total College	Discolated	Oxygen			
Time	Removed	T" (C/F)	ρН	Specific Conductivity	Turbidity [NTUs]	Dissolved	Reduction	Color	Odor	Other
	(gal)			-		Ardra	Potential	/ 1000	· ·	
415	0	117.44		COE 1	3.3	0.14	-74.7	COSA	-	
410		11.57	1.41	0.045	2300		シデ	- 1		_
Y23		17. / 1		11,06.1	0.4-	0.19	7 5	1,4		-
424	1			0.068	0.4	0.14		11		
141-1		13,126,3	361 3 T	0.000				-		
				-						
									-	
-	ance criteria				Yes No	N/A	-			
		l volume bed			<u>u</u> , <u>L</u>					
	-	l turbidity be		d	Ø, L					
	Have param	eters stabiliz	ed							
í	f No or N/A	Explain be	low							
	OLI EGTION.	Meth	ouds	real	PUMP.					
AMERICA A TOTAL AND A STREET		Container		Vo. of Contain	day Dro	servation	ā.	nalysis		Time
Samp N ~ -		CONTAINER		40, or contain	leis Tic	13203	Tail S	LLILV		-3C
10/11										
_	-			-	and the same of th			-		
					1					
						-				
						_				
Additional	Comments:									
	N Mary Street World						12-9-	10		
Signature:		CVM	A.		Da	te:	1 - 1	1 1		



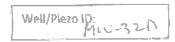


train assurtanter	Project Start: Finish:	e. Water Co Length (a-b) f. Calculate	12	i i	m/pm m/pm
Site Location: Weather Conditions: DVECCAST, 401, CCCC27 WATER LEVEL DATA: (measured from top of casing) Total Well Length: c. Casing Material: Water Table / L. 45 d. Casing Diameter: 7	Finish	e. Water Co Length (a-b) f. Calculate	ulumo	i	
WATER LEVEL DATA: (measured from top of cosing) Total Well Length: C. Casing Material: Water Table / L. 45 d. Casing Diameter: 7	Finish	e. Water Co Length (a-b) f. Calculate	ulumo	ii	m/pm
WATER LEVEL DATA: (measured from top of cosing) Total Well Length: c. Casing Material: Water Table / C. 45 d. Casing Diameter: 7		Length (a-b) f. Calculate	12		
Total Well Length: c. Casing Material: F.\ Water Table /C.45 d. Casing Diameter: 2		Length (a-b) f. Calculate	12		
	i t	f. Calculate			
			el Mali		
pm:		Volume:	SI TITICII		
					
WELL PURGING DATA:					
Purge Method: LCW - FLOW		-			
a. Acceptance Criteria:	_ kI -				
- Minimum Required Purge Volume (@ NA	weii v	(Sittines)			-
- Maximum Allowable Turbidity	JS				
- Stabilization of Parameters (4)	. %				
c. Field Testing Equipment Used		eroutskih.	lumber		
Make 151 Model		S6Ligs L	minner		
d. Field Testing Equipment Calibration Documentation					
Volume Empire Turbidity		Oxygen	-		
Time Removed T*(C/F) pH Conductivity (NTUs)	Oxygen	Reduction	Color	Odor	Dthe
(gal)		Potential	CLO/HS		
340 0 19.08 6.67 E.136 1.1	11.10	747	ENERGY THE		
345 1530 676 8,266 5.4	8.63	15.7 -53.2	7,-2,-		
350 17.27 6.93 0.239 3.2 1355 19.20 7.01 0.241 2.1	6.83	-102	Iv.		-
		-707.7	Market Street,		
1400 2.0 19 17 7.0 , 0.241 1.8					
10 to					
4	N/A				
e. Acceptance criteria passyran					
Has required votume been removed					
Has required turbidity been reached					
Have parameters stabilized					
If No or N/A – Explain below					
American Control of the Control of t					
SAMPLE COLLECTION: Method: PLOCA - PLOM P	2024				
Container Type No. of Containers Pre	servation		Analysis		Time
MW-30D SEC MC L	M03	TA	activa		4-10
	4.0				
					and the second
					-
		<u> </u>	- P-12		P-4
Additional Comments:					
Separture: Da	ite:	12-4	-19	<u> </u>	





Client: 6A	SE			Date	. 12	-9-14		
Project Name:	MEMINITE	J						
Site Locations				Start		1125		am/pm
Weather Conditions:	DUPPLY AST	1-6 5, 15,64	COD-1			240		am/pm
WATER LEVEL DATA:	_		/	3				
Total Well Length:		c. Casing Material:		YCL	e. Water I Length (a-t			
Water Table	15.43	d. Casing Diameter	: 2"		f. Calculate			
-pih:				Sar-	Volume:			
WELL PURGING DATA								
a. Purge Method:		FLIAM						
b. Acceptance Criteri								
	Required Purge Volt	ıme (@	JA	well	volumes) _			
- Maximun	Allowable Turbidity	/0	NET NET	îUs	. –			
- Stabilizati	ion of Parameters	181		96				
c. Field Testing Equip	ment Used							
Make	YSI	Model			Serial I	Number		
d. Field Testing Equip	ment Calibration Do	cumentation						
				, ,			noted total	1.4
Volume Time Removed	?"(C/F) pH	Specific	Turbidity	Dissolved	Oxygen	Color	Odor	Other
(gal)	(GE) but	Conductivity	(NTUS)	Oxygen	Potential			
1128 0	19.33 7.4		36.4	4.12	-64.9	こして入		
141.	19.75 7.3	The second secon	15:01	0,31	-134-	11		
1146	19.02 73	The second second second	12.9	0.19	- 13 =	Lt.		
(150	1895 7.2	The second secon	12.5	0.44	-135			
1155 1.5	15 97 73	7 8.232	7.5	0 ,47-	- (4-0		_	
	-				-			
			Yes No	N/A				
e. Acceptance criteri	a passyran :d volume been remo		Yes No	1 17	and the same of th			
	ed turbidity been reas							
4	neters stabilized	neu						
-								
IT NO OF NA	A – Explain below							
		0	0.0					
SAMPLE COLLECTION		Perci -						
Sample ID	Container Type	No. of Contain		servation		inalysis		Time
MM-310	SEC ML		141	10 3		الالمام		7.03
				· · · · · · · · · · · · · · · · · · ·				
	24.0			-	- I hali	LULEVA	· ·	
		<u> </u>			- I do		-	
	The second secon	-						
Additional Comment	<u></u>							
	77000				12-7-	14		
Signature:	TOMIC	1	Da	te:	1 -	T. T.		



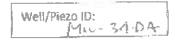


Client:	455			Date	L	1-4-1	4-	
Project Name:	NILKINGTLA			Proje	ct Number:			
direct				Start	ct Number:	1205	×-v	am/pm
Weather Conditions:	AUBRICASTA	405 F26	75.5	Finis	ı:	IDLY		am/pm
			,					
WATER LEVEL DATA:			D.	<u>C</u>	e. Water U	olumn		
Total Well Length:	t	Casing Material:			Length (a b			
Water Table	15, 5 la 1	. Casing Diameter	n	7	f. Calculate	d Well		
epth:					Volume:			
WELL PURGING DATA	A:							
a. Purge Method:	4 8134.1	- wind						
b. Acceptance Criteri	н:		7.4					
- Minimum	Required Purge Volu	me (@	-1/Ac	well	volumes) _	~~~		
- Maximum	Allowable Turbidity) N	FUs				
- Stabilizati	on of Parameters		- Topics	%				
c. Field Testing Equip	ment Used				er - 2 - 1 h	1b		
Make					Pistret is	lumber		
d. Field Testing Equip	ment Calibration Doc	umentation						
hat-th		G. Y.	l .	T	Oxygen			1
Time Removed	T* (C/F) pH	Specific	Turbidity (NTUs)	Dissolved Oxygen	Reduction	Color	Odor	Other
(gal)		Conductivity	, ,		Potential	144 455A E	Agus P. C.	
WORL C	16.13 7.31		0.7	7.11	23.4	CLEAG		
1011	19.68 74	·	G - !	3,12	-19.5 -75.6	i y		+
0.4	11.577.6	20126	0.1		- 124	3.1		
10.20	The second secon	35 15		0.80	30	4.4		1
023 1.0		10,115	5 1	0.85	- 132	21		
								-
					l			
Has require Have param	a pass/fail ed volume been remo ed turbidity been read neters stabilized A — Explain below		Yes No					
SAMPLE COLLECTION		(<u></u>	Pina P	eservation		Analysis		Time
Sample ID	Container Type	No. of Contail	ners ; PC	PAC 3	774	3 L'ILLAN	15	22.5
1410-29	3 40 (3 1 1 1 pm			1				
						, Manager	M	
								-
		3			-	. mas Va		
	L				l			
Additional Comment		Marine and the same				r w		
Simpature	TENVIS !		ם	ate:	2-17-	14		



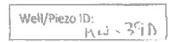
-				_	_
	Well/Piezo ID:				ļ
j	, , , , , , , , , , , , , , , , , , , ,	11	10-3	3	N

Client: OA SE					Date: 12-9-14			
Project Name:	Proje	Project Number: 1055						
Site Location:						am/pm		
Weather Condition	as OVERLAS	7 40 GA	24	Finis	h:	HIC		am/pm
	FA: (measured from		•					
Total Well Lungth	ing fillsenanted house	c. Casing Material	: P	LC_	e. Water G	olumn		
-	125 - 11	1 -	Length (a-h):					
Water Table pth:	15.74	a. <u>5</u>	f. Calculated Well Volume:					
WELL PURGING D	ATA:							
a. Purge Method:	600	FLUIL						
b. Acceptance Crit	teria:							
- Minim	um Required Parge	Volume (@	AL	well	volumes)			
- Maxim	um Allowable Turbi	dity	C NT	Us				
- Stabili:	ration of Parameter	15		%				
c. Field Testing Ea	uioment Used							
		Model	(et FILE		Serial N	lumbéi		
d. Field Testing Eq	uipment Calibration	Documentation						
T Volum			-		Oxygen			T
Time Remov	ed T'(C/F)	PH Specific Conductivity	Turbidity (NTUs)	Dissolved Oxygen	Reduction Potential	Color	Oder	Other
1057 (gal)	1 1 1 1 1 1 1 1 1	.20 0.195	3.5	2.94	- 3.5	CLEAR		
1101	20 80 7	14- 11,320	5.1		73.4	81		1 _
เเอิร	20,16	.12 0.354		0.4.1	- 114	1.		
110	20.34 1	.12 0.555	4.7	0,51	- 67.4	1*		
-								+
						-		
I								
 Acceptance crit 			Yes No	N/A	and the same of th			
	iired volume been n							
	ired turbidity been	reached						
	rameters stabilized							
if No or i	N/A – Explain below							
SAMPLE COLLECT	ON: Method.	ferli-	PENNED					
Sample ID	Container Type	No. of Contain	ners Pres	servation		nalysis		Time
MW-330	500 KL	1	f-4	103	7 144	CHILVY	1-1	:10_
<i>y</i>					-			
				-				
							<u>i</u>	
Additional Commo	ents:							
	1.24	4			11-6	-14		
Signature:	TOM.		Dat	ie:	1.6			





Client: <u>BASE</u>	Date: 12-1-14-
Project Name: Love Hender Told	Project Number: Start: /030 am/pm
Cita Lacation:	Start: /030am/pm
Weather Conditions: C. COC CO ST., 4-C 1 , SECE 29	Finish: /CSC am/pm
· · · · · · · · · · · · · · · · · · ·	
WATER LEVEL DATA: (measured from top of casing)	V. e. Water Column
10(5) hater reliferer	Length (a b):
Water Table 18.35 d. Casing Diameter	(, Glouisted Well Volume:
eplh:	Aorhun.:
WELL PURGING DATA:	
a, Purge Method: Low - Fucus	
Acceptance Criteria: Minimum Required Purge Volume (@ NA	well volumes)
- Maximum Allowable Turbidity	NTUs
- Stabilization of Parameters	%:
c. Field Testing Equipment Used	Serial Number
Make Model	26 (8) sentines
d. Field Testing Equipment Calibration Documentation	
Volume Specific Turbidity	Dissolved Daygen Color Other Oth
Time Removed T'(C/F) pH Conductivity (NTUs)	Oxygen Potential Color Odor Oth
1037 0 14.56 7.45 0.21 3.9	4.13 -16.4 CLEAR
1037 0 10.00 7.20 0.00 2.10 10.00 10.	4-21-16
19.74 7.25 1.25 1 4.0	1-10-5.6
1647 1.5 1974 173 6.251 4.2	4.03 - 4.9 "
e. Acceptance criteria passyran	No N/A
Has required volume been removed	
Has required turbidity been reached	
Have parameters stabilized	
If No or N/A - Explain below	
SAMPLE COLLECTION: Method: PERCI - Pim.	
Sample ID Container Type No. of Containers	Preservation Analysis Time
MW =3454 SCO M-	HNOS THALLEY 16 ST
	An
Additional Comments:	All and the second seco
	Date: 12-9-14
Signature:	Date: 12-11-14





Client: 5935E		Date	12-10-	14
Project Name: LATER (TTET	<u></u>	Proge	ect Number:	
Site Location:		Start	: 104-0	am/pm
Site Location:		Finisi	h:	@am/pm
WATER LEVEL DATA: (measured from top of		PVC	e. Water Column	
b. Water Table 3,772 d	. Casing Diameter:	24	Length (a h): f. Calculated Well Volume:	
WELL PURGING DATA:				
a. Purge Method: L SN -	PLUNI			
b. Acceptance Criteria:				
- Minimum Required Purge Volu	ne (@	, <u>A.</u> well	volumes)	
 Maximum Allowable Turbidity 	U	NTUs		
- Stabilization of Parameters		%		
c. Field Testing Faulpment Used				
Make 455	Model		Serial Number	
d. Field Testing Equipment Calibration Doc	umentation			
Volume	Specific To	arbidity Dissolved	Oxygen	
Time Removed T*(C/E) pH	anger of the control	NTLIS) Oxygen	Reduction Color Potential	Orlor Other
104F 0 1546 7.2	0,237	ST C.C.T	-4.0 CLEY	
	0.701 3	S 0.28	43.7	
1054	810.196 1.4	3 10.01	57.1.	
16,51 5.74	6.185	11.0	31.5 1	
1100 7.5 No. 63 5.6		3 0.12	70.2	
e. Acceptance criteria pass/fail Has required volume been remote Has required turbidity been reach Have parameters stabilized If No or N/A – Explain below		No N/A		
SAMPLE COLLECTION: Method:	FER FIN	1f		_
Sample ID Container Type	No. of Containers	Preservation	Analysis	Tirre
MIN-390 STOME		Hn-30 3	TUDECIL	n 1100
				*
		-	-	
-	direktiran	1	7	
Additional Comments:				
			2 10 -1 1	
Signature: \ \ CVV\		Date:	7-10-14	



Chent: 5	から				Date	. 11	1-9-10	4	
Project Name:	WILMIN	ান ১				ct Number:			
Class I amount					Start	0	341		am/pm
Weather Condition	ne BURTA	×7.40	OJ. ARE	3574	Finis		000		am/pm
Predict Condition	122. 44.6.4		and the second second		1 800001	·			arre prii
WATER LEVEL DA' Total Well Length: Water Table	TA: (measured fr	6	casing) Casing Material: Casing Diameter		<u>v</u>	e. Water t length (a-l f. Calculat	3):		
oth:	4-6	u.,	Casing Diameter	•	***	Volume:	en aven		
-						7 = 1.75 17 2			
WELL PURGING D	ATA:								
a. Purge Method:	<u></u>	2W - F	- Lucian I						
). Acceptance Cri	teria:			l A					
- Minim	um Required Pu	rge Volum	e (@	NIA N	well	volumės) _			
- Maxim	num Allowable Tu	arbidity	1.1	A N	ľÚs				
- Stabili	zation of Parame	ters		0	96				
c. Field Testing Eq	gipment Used								
Make	451		Model =			Serial f	Number		
d. Field Testing Ed	quipment Calibra	tion Docur	nentation						
Time Remov	red T*(C/F)	pН	Specific Conductivity	Turbidity (NTUS)	Dissolved Oxygen	Oxygen Reduction Potential	Color	Odor	Other
n941 75	and the same of th	6.95	0.034	5.2	10.54	24.1	CUPAN	_	1
745			0.044		4 (1	20.1	17		
7146			11.056		8 11	34-7	1s		
0152			0.421		7.96	B. F.	3.0		
156 /	21.24	6.07	0.122	4.5	7.54	30.0	11		
		_						In Broke MF -1	
		1							
				E					i
Has requ Have pa	teria pass/fail uired volume bee uired turbidity be rameters stabiliz N/A – Explain be	en reache ed		Yes No	N/A				
SAMPLE COLLECT	ION: Meth	tod:	PERM.	PUMP					
Sample ID	Container	Type 1	No. of Contain	ers Pro	servation		malysis		lime
NW-43	· L	RAL .	1	1	7403	11	Stic per-	10	00
4 - According to									
			_		_			1	
			11-1-0				791		
		- 1				(p. 4		2 3 5	
Autoria de la composición del composición de la	ente:							1	
Additional Commi	errest.								
	. 783	T.		D.		12-9-	14		
Signature:	4 K VV			L/d	te:	10.	- 1		





Project Name: Stre Location: Start: Weather Conditions: DUCTC AST 4CS FACE2Y Finish: Water Level DATA: (measured from top of cosing) a. Total Well i ength: C. Casing Material: Len. b. Water Table 14.6.2. d. Casing Diameter: 2. f. c. Casing Material: Len. c. Water Table 14.6.2. d. Casing Diameter: 2. f. c. Casing Material: Len. b. Acceptance Criteria: Minimum Required Purge Volume (@ Maximum Allowable Turbidity IC NTUS Stabilization of Parameters c. Field Testing Equipment Used Make 9.7. Maximum Calibration Documentation Time Removed T(C/F) pH Specific Turbidity Dissolved Daygen Reductions Time Removed T(C/F) pH Specific Conductivity (NTUS) Dissolved Pole D14. Casing Diameters Calibration Documentation Conductivity (NTUS) Dissolved Daygen Reductions C. Acceptance criteria pass/fail Yes No N/A Has required volume been removed Has required turbidity been reached Has required turbidity been reached Revenue and Total Resource Criteria pass/fail Yes No N/A Passequired turbidity been reached Resource Criteria pass/fail Yes No N/A Passequired turbidity been reached Resource Criteria pass/fail Yes No N/A Passequired turbidity been reached Resource Criteria pass/fail Yes No N/A Passequired turbidity been reached Resource Criteria pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pass/fail Yes No N/A Passequired turbidity been reached Resource Criteria Pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pass/fail Yes No N/A Passequired Turbidity Dissolved Resource Criteria Pa	12-9-14	
WATER LEVEL DATA: (measured from top of cosing) Total Well length: Water Table Well PURGING DATA: a. Purge Method: Maximum Allowable Turbidity Stabilization of Parameters C. Field Testing Equipment Used Make Make Model Model Model Model Moderno Time Removed (gall) Conductivity Model Make Model	Harte Mil Stein, on: "The Millings from the Miller of the American Stein	
WATER LEVEL DATA: (measured from top of cosing) Total Well length: C. Casing Material: Water Table 14. F. Z. d. Casing Diameter: 2. Length: Well PURGING DATA: a. Purge Method: b. Acceptance Criteria: Maximum Allowable Turbidity Stabilization of Parameters C. Field Testing Equipment Used Make Make Make Model	0916	am/pm
Total Well length: Water Table 14, 62 d. Casing Diameter: 2	0730	am/pm
Total Well Length: Water Table 14, 12 d. Casing Diameter: 2 I. C. Casing Material: Water Table 14, 12 d. Casing Diameter: Volume 15 d. Casing Diameter: Well PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@		
Water Table WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@	Water Column	
WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: Minimum Required Purge Volume (@ // well volume // Maximum Allowable Turbidity // IC NTUs Stabilization of Parameters c. Field Testing Equipment Used Make // I Model // Specific Turbidity Dissolved Reduced (NTUs) Oxygen Pote (gall) Time Removed (gall) // Conductivity (NTUs) Oxygen Pote Pote // Conductivity (NTUs) Oxygen Pote // Condu	ıgth (a-b):	
WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: Minimum Required Purge Volume (@	Calculated Well	
Acceptance Criteria: - Minimum Required Purge Volume (@	m11	
Acceptance Criteria: - Minimum Required Purge Volume (@		
Minimum Required Purge Volume (@		
Stabilization of Parameters Field Testing Equipment Used Make Make Model M	1	
Stabilization of Parameters Field Testing Equipment Used Make Make Model M	nes)	
Make 15 I Model 22.5 S I. Field Testing Equipment Calibration Documentation Time Removed (gall) T (C/F) pit Specific Turbinity Dissolved Oxygen Reductivity (NTUs) Oxygen Pote Oxygen Po		
Make 1 Model 1 Section Sec		
Time Removed T (C/F) pH Specific Turbirity Dissolved Redu (gall) 2 1 4	Serial Number	
Time Removed (gal) T (C/F) pH Specific Conductivity Dissolved Redu Pote (gal) C (NTUs) Dissolved Redu Pote C (NTUS) Dissolved Redu P		
Time Removed (gal) T (C/F) pH Specific Conductivity Dissolved Redu Pote (gal) C (NTUs) Dissolved Redu Pote C (NTUS) Dissolved Redu P		
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below METE COLLECTION: Method: Container Type No. of Containers Preservation	gen Color	Odor Other
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below METE COLLECTION: Method: Fe 2-1 — Function Sample ID Container Type No. of Containers Preservation	ential	
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below METE COLLECTION: Method: Sample 10 Container Type No. of Containers Preservation	7.7 (48/14)	1
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG. – FUMA Sample ID Container Type No. of Containers Preservation		
Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG. – FUMA Sample ID Container Type No. of Containers Preservation	2.2	
Acceptance criteria pass/fail Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG. – FUMA Sample ID Container Type No. of Containers Preservation	11	
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG CUMP Sample ID Container Type No. of Containers Preservation	1.3	
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG CUMP Sample ID Container Type No. of Containers Preservation		
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: Sample ID Container Type No. of Containers Preservation		
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEG COMPA Sample ID Container Type No. of Containers Preservation		
Have parameters stabilized If No or N/A – Explain below AMPLE COLLECTION: Method: FEY-1 – CUM C Sample ID Container Type No. of Containers Preservation		
AMPLE COLLECTION: Method: FEX-1 - CVM \(\) Sample ID Container Type No. of Containers Preservation		
AMPLE COLLECTION: Method: FEY-1 - CUM C		
Sample ID Container Type No. of Containers Preservation		
Sample ID Container Type No. of Containers Preservation		
Sample ID Container Type No. of Containers Preservation		
1W-A6 500 11 1 FACOS -	Analysis	Time
	1343621672	0930
		Birth of man
		1
dditional Comments:		

Well/Piezo	ID:	Chi	-\
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Chent:	BASE				Date	<u> 12</u>	-11-14		
Project Name:					Proje	ect Number:			
Site Location:	LABOLINI MI MICH	TEN			Stari		1410		mypm
Weather Condit	ions CLTAC	Stir L	WHIT PR	OPE	Finis	h:	1515		m/pm
Total Well Length Water Table pilit WELL PURGING a. Purge Metho	12.67 DATA:	c. (Jasing Material: Jasing Diameter	*å 5	A'-	e. Water Cr Length (a-b) f. Calculate Volume:):	1.00.00	
. Acceptance (and the frame	ele N	A	wei	unharmed			
	imum Required Pu simum Allowable T			41	1-12-1-12-1	resultical			
					. 1940.5				
	oilization of Parame	eters							
c. Field Testing	Equipment Used		Model			Serial N	lienher		
		iden Denu				2624 1631 64	TOTAL TOTAL		
a. Field Lesting	Equipment Calibra	MON DOCU	I HATTATION						
Time Ren	lume noved T*(C/F)	рН	Specific Conductivity	Tunbidit (2UTM)	·	Oxygen Reduction Potential	Color	Odor	Öthe
2 4 57	0 20 11	6.77	0.196	30.3	1,60	-52.6	FALE	CRAN'S	
453	19.03		12.18.7	25.5	0.59	-52.5	CUEA	<u>r</u>	
458	19.61	Lith	0.182	22.0		-52.9			
563	19.46		0.160	12.		-52.4	<u> 1</u>	-	4
509	11.44	الله الله	0.19			-53A	21	-	
513 2.	5 17.24	4.77	D.177	Est	V- E- 3.3	- 27-4	1.6		
Has ro Has ro Have	criteria pass/fail equired volume be equired turbidity b parameters stabili or N/A — Explain b	een reache zed	d	Ves	No N/A				
SAMPLE COLLE	CTION: Met	Carried and Carrie	THE AN	A	MINNE F	, has commonweal			Films a
Sample ID	Container		No. of Contain	CIS	Preservation	AC'94	nalysis	1 75	Sime
RW-	51.0				H703	/M-34	CINE		2 3
	152	YNL	· ·		Molar	6,47 6,6	A TAIL ACT		
									100
***								dame le	
						1		1	
Additional Con	nments:							and a side of	
	part to the same of the same o	11			0-1	12-11-1	4		
Signature:		11.			Date:	1 400	1		



Well/Piezo ID:		Well/Piezo	ID:	Per	-4
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- Park - Tark - 1987
WATER LEVEL DATA: (measured from top of casing) a. Total Well length: C. Casing Material: Depth: WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@
WATER LEVEL DATA: (measured from top of casing) a. Total Well length: C. Casing Material: Depth: WELL PURGING DATA: a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@
a. Total Well Length: b. Water Table Depth: WELL PURGING DATA: a. Purge Method: - Minimum Required Purge Volume (@
a. Total Well Length: b. Water Table Depth: WELL PURGING DATA: a. Purge Method: - Minimum Required Purge Volume (@
b. Water Table
a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@
a. Purge Method: b. Acceptance Criteria: - Minimum Required Purge Volume (@
b. Acceptance Criteria: - Minimum Required Purge Volume (@
- Minimum Required Purge Volume (@
C. Field Testing Equipment Used Make
C. Field Testing Equipment Used Make
C. Field Testing Equipment Used Make
Make
d. Field Testing Equipment Calibration Documentation Time Removed T (C/F) pH Specific Conductivity (NTUS) Oxygen Reduction Color Odor Other Removed (gal) (RTUS) Oxygen Reduction Color Odor Other Color (gal) (RTUS) (RTUS) Oxygen Reduction Color Odor Other Color (gal) (RTUS)
Time Removed T (C/F) pH Specific Conductivity Dissolved Reduction Reduction Reduction (gall) C C
Time Removed (gal) (C/F) pH Specific Conductivity (NTUs) Dissolved Reduction Color Odor Other (gal) (C/F) pH (NTUs) (NTUs) Dissolved Reduction Color Odor Other (gal) (C/F) pH (NTUs) (N
Time Removed (gal) PH Specific Conductivity (NTUS) Dissolved Reduction Color Odor Other (gal) Protential Color Odor Other Color Odor Odor Other Color Odor Other Color Odor Odor Odor Odor Odor Odor Odor Od
Potential Pote
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below Sample ID Container Type No. of Containers Preservation Analysis Time
e. Acceptance criteria pass/fail Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below Sample ID Container Type No. of Containers Preservation Analysis Time
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Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FCM FCM Sample ID Container Type No. of Containers Preservation Analysis Time
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FCM FCM Sample ID Container Type No. of Containers Preservation Analysis Time
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FCM FCM Sample ID Container Type No. of Containers Preservation Analysis Time
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FCM FCM Sample ID Container Type No. of Containers Preservation Analysis Time
Has required volume been removed Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FCM FCM Sample ID Container Type No. of Containers Preservation Analysis Time
Has required turbidity been reached Have parameters stabilized If No or N/A – Explain below SAMPLE COLLECTION: Method: FOR FUNC Sample ID Container Type No. of Containers Preservation Analysis Time
SAMPLE COLLECTION: Method: Pow Function Sample ID Container Type No. of Containers Preservation Analysis Time
SAMPLE COLLECTION: Method: PER FUNC Sample ID Container Type No. of Containers Preservation Analysis Time
Sample ID Container Type No. of Containers Preservation Analysis Time
Sample ID Container Type No. of Containers Preservation Analysis Time
Sample ID Container Type No. of Containers Preservation Analysis Time
Sample ID Container Type No. of Containers Preservation Analysis Time Columbia Container Columbia Col
1211-4 123 AL 101-2 Charles 1823
Additional Comments:
Signature: 12-/6-/4
Signature: Date: 12 TO



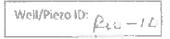


Client:	RASE			Date:	12-	10-14		
Project Name:	LALHINGTER			Proje				
				Start.		1310		am/pm
Weather Condition	ons: MC;724 L.L	EAC 25	BREEZ	V/ Finish	30	1350		am/pm
	ad ¹⁰ , - anchords to 2.0 Å.	1	1	1				
WATER LEVEL DA a. Total Well Length:	TA: (measured from top	of casing) c. Casing Material:	4	2.c	e. Water C	aluma		
NA 2 months and 11 things	-		J(1.	Length (a-b	-	10.	-
b. Water Table	4.34	d. Casing Diameter	4		f. Calculate Volume:	ed Well	- 4	-
Depth:					W-LINDS II CT.			
WELL PURGING D	DATA:	-, ,						
a. Purge Method	Low-f	-Lew					_	
b. Acceptance Cr	iteria:	- 1	٨					
/ Minio	num Required Purge Vol	ume (@ N	4	well	votumes) _			
- Maxir	num Allowable Turbidity		NT					
	ization of Parameters _	(C		%				
c. Field Testing E								
	451	tModel			Serial N	lumber		
d. Field Testing E	quipment Calibration Do	cumentation						
					Oxygen	1		
Volu Time Remo		Specific	Lurbidity	Dissolved	Reduction	Color	Odor	Other
(8a		Conductivity	(NTUs)	Oxygen	Potential			
1330 C	and the same of th		13.4	0.23	54.2	CLEAR		
1333	16.46 6.6		16.7	0.77	53,2	11		
13.36	16.33 6.6		19.0	<u>0.37</u>	52.7			_
1351	18 23 6 4	5 7 163	16.0	0.44	52.7	17		× «
134-1		2 3 15 6	13.4-	0.64	\$2.7 \$1.5	4.5		
1345 2.	The second secon	7 2 147	97	6.13	52.5			
17 PC Les	9 11	2	- 4	-				
_								
e. Acceptance or			Yes No	N/A	_			
	piired volume been rem							
	quired turbidity been rea	ched						
Have p	arameters stabilized							
ក្រ No ១រ	r N/A – Explain below							
					-			
SAMPLE COLLECT	TION: Method:	PERI 1	DINGP					
Sample 1D	Container Type	No. of Contain	ers Pre	servation	Α	naiysis		Time
200-6	# 125 ML			CNE	(144	FIG-TUG		3 52
					1			
					1	~		
						decil		
			-		-		=	
				_				
A P 14 1		1						
Additional Comm	nents:							
CC and have	TOWN		Da	te:	12-10-	-14	Britis' -	
Signature:	CI Amort		Pulls			- 1		



Well/Piezo	173-		
-4011111000	170		حيد
	100	10	- C+

Client:	F	24-3F				Date	e /:	2-10-1	4	
Project Na	me:	المالك	N GTUT	1		Proi	ect Number		F-	
Site Location	on-					Stari		14-00		am/pm
Weather C	onditions:	425TL	CLO	1 523	BROKE	1 Finis	h:	1415		am/pm
						F		Table a State of the State of t		
	VELDATA: (measured f			0					
a. Total Well I	length;		c. (Casing Material		U(e. Water (
b. Water Tabl	c	3.13	d. (Casing Diamete	c	4	Length (a-) f, Calculat			
Depth:							Volume:			
WELL PUR	GING DATA:									
a. Purge N	tethod:		5h - F	LUM						
b. Accepta	ince Criteria									
_	Minimum F	tequired Pu	rge Volum	· (@	MA.	well	volumes) =			
-	Maximum /	Aliowable Ti	urbidīty	Jī	NI	Us				
-	Stabilizatio	n of Paramo	eters	10						
c. Field Tes	sting Equipm	ent Used								
I.	/ake	155		Model =			Serial I	Yumber		
d. Field Te	sting Equipn	nent Calibra	ition Docur	nentation						
					r					
Time	Volume Removed	T" (C/E)	plt	Specific	Turbidity	Dissolved	Reduction	Color	Odor	Other
unie	(gal)	1 (17) (1	hir	Conductivity	(31,1714)	Dxygen	Potential	U.URSH	Ogor	Otisci
14cc	C	17.43	L. No.	Odeles	17.2	0.93	38.3	CLEIN	2	
14651		17.14		0.618	6.0	1,21	45.7	71		
14a8	***	17.67	6.64	0.628	4,4	1.35	16.5	1		
1411	2.0	17. (2.	6.63	Cabil	3.£	1.47	49.1	H		
										-
									-841	
					1					
								<u> </u>		1.
e. Accepta	nce criteria i	pass/fail			Yes No	N/A	_			
H	las required	volume bed	en remover	1						
Н	las required	turbidity be	en reache	t	$\overline{\sqcap}$					
н	lave parame	ters stabiliz	ed		—					
If	No or N/A -	-Explain be	low							
C 1 1 451 E CC	ALECTION:	N.O. als	und.	Person P.	-ma					
Sample Ce		Container 1	MAN	lo. of Contain	D. Abdata a v. 1	servation _		nalysis		Time
2wi		71-7-7-4	TO T	CO. OI CANTENIA				SEERAM		HS
12,00		125 14		_		ONE -	C14	co(Cin∈		-
107							The second secon			
							THE STATE OF THE S			
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			j			-				
Additional (Comments:			· · · · · · · · · · · · · · · · · · ·						
		i CVA	4 .			- /	2-10-	1/1		
Signature:		1 7 7 7			Dat	PT 1	5 1 kg 1	-1-		





Client: GASE Project Name: WithingTIN		Date:	12-10-	-14_	
Project Name: SILMINGTON		Proje	ct Number:		
Site Location:		Start:		164-5	am/pm
Weather Conditions: CUENC- 4E's Life	HI GREETE	Finish		J.1C:	am/pm
WATER LEVEL DATA: (measured from top of cosing)	r	·			
a. Total Well Length: c. Casing Mater		<u> </u>	e. Water Column Length (a-b):	1	
b. Water Table 21. 24 d. Casing Diame Depth:	eler:	h ii	f. Calculated We Volume:	1	
WELL PURGING DATA:	9				
a. Purge Method: LCW - FLCV	i i				
b. Acceptance Critoria:			_		
- Minimum Required Purge Volume (@	NA	well	volumes)		
- Maximum Allowable Turbidity	C NT				
- Stabilization of Parameters 10		%			
C. Field Testing Equipment Used	Cof. ic		Serial Numb	MA P	
	(61,20		Serial region.	life, 1	
d. Field Testing Equipment Calibration Documentation					
Volume			Oxygen	Ī	
Time Removed T (C/F) pH Specific		Dissolved Oxygen		olor (Odor Other
(gal) [7,42]		0.12	Potential C	LETA 2	
		11.13	. 10. 3	16 -	
0858 16.37 6.63 C.14	1 7.6	013	10 3	12	
0705 18,46 6.61 17.14	9 3.4	11.14	- 3.1	pt .	
07C8 1.0 18 10 6.10 0 14	1 1544	0.14	0.1	1.4	
			-	1	
e. Acceptance criteria pass/fail	Yes No	N/A	_		
Has required volume been removed					
Has required turbidity been reached					
Have parameters stabilized					
If No or N/A – Explain below					
SAMPLE COLLECTION: Method: FER-137	WETE PL	MI,	40. 140		
Sample ID Container Type No. of Cont	tainers Pro	servation	Analy		Time
1210-10 125 HL 1	-	35125	CHLC	-(1)E	0710
		-		Bart .	3
	-			*****	
Additional Comments:				_	
			118 118		
Signature:	Da	ite: 1	2-12-14		





Client:	ED A	rSF				Date	. 12.	9-14-		
Project N	ome:	त द्वार दर	Ursi							-
Site Local	tion:					Stari		1540		am/pm
Weather	Conditions:	OUWEC	এছ ব	POS, BA	WED.Z		h:	1600		ani/pm
			,	1						
	EVEL DATA:	(measured f			0	Se Zum				
a. Total Wel	I Length:		с.	Casing Material		<u>۱۳۷۰ - ۲۷</u>	e. Water (Longth (a l			
b. Water Tal	ble	15.71	d,	Casing Dramete	r: lo	1#	f. Calculat			
Depth:						·- ·- · · · ·	Volume:			
WEST DIS	RGING DATA:	,								
	Method:		المارة	3						
_	tance Criteria									
-	- Minimum F		rge Volum	e f@	JA	well	volumes)			
	- Maximum				MT		,			
	Stabilizatio					96				
c. Field To	esting Equipn	nent Used								
	Make	SIT		Model =			Serial I	Number		
d. Field T	esting Equipm	nent Calibra	tion Docនា	mentation						
	1 122 1	· · · · · · · · · · · · · · · · · · ·			1					d d
Time	Volume Removed	₹* (C/F)	pH	Specific	Turbidity	Dissolved	Oxygen Reduction	Color	Odor	Other
	(gal)			Conductivity	(NITUS)	Oxygen	Potential			
1547	0	18 111	7.00	6.363	Garto-	0.17	16.7	CUEM	2	
1255		18,45	국당	0.394	3275	0.14		== †		
1225	1.0	9.26	7.09	0.375	1.6	12.14	17.3	- 1		-
1 2 2 36	- 1 1 hard James	4 73 4 345	1 1	21, 5 1 141		-4-jailye-				
e. Accept	ance criteria	pass/tail			Yes No	N/A				
-	Has required		n remove	1			and the second			
	Has required	turbidity be	en reache	d						
	Have parame	ters stabiliz	ed							
	IF No or N/A -	- Explain bel	OW			_				
CARABICA	CHECAN.	Meth		EAR ST	ALTIC	PLMP.				
	OLECTION:	1-0-0-1		lo. of Contain		servation	T	nalysis	· T	ime
Samp	r - II	Container 1		io, di Contani		-7333		LL!LV~	16	(DC)
1000		75.07								
,,										
										7
		t and the second								· ·
Additional	Comments:		- h						· · · · · · · · · · · · · · · · · · ·	
-							w***.			
Signature:		CVM			Date	c: 12		1-		

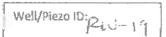




Client:	RADE			Date:	12-	9-14		
Project Name:	MILHION	re-l			t Number:			
Cita Lacation				Start:		14.40		m/pm
Weather Condition	is: DUSPECA ST	, 403, BC	GE 31/	Finish	-	14.41	ā	m/pm
			,					
	A: (measured from to		D ₁	1C		at one		
Total Well Length:		c. Casing Material:			e. Water Calb		7.7	
. Water Table epth:	22,04	d. Casing Diameter:	: <i>L</i>		f. Calculate Volume:		<u> </u>	
WELL PURGING D	ATA:							
a. Purge Method:		-FLOW	-					
 b. Acceptance Crit 								
- Minim	um Required Purge Vo	lume (@	MA	well	volumes)			
- Maxim	um Allowable Turbidit	y / C	NT NT	'Us				
- Stabili:	zation of Parameters	1.0		%				
c. Field Testing Eq						e de la contraction		
_	<u> 431</u>				Serial 8	lumber		
d. Field Testing Ed	uipment Calibration D	ocumentation						
	-					.,		
Volum		Specific	Turbldity	Dissolved	Oxygen Reduction	Colos	Odor	Diher
Timer Remov	1 " 1 "	Conductivity	(Nřus)	Oxygen	Potential			===
510 0	18.39 6.7	0 0.258	3/.1	0.03	-1.5	Falte	60m	<u> </u>
1515	18.21 6	10 0,257	31.2	0.03	-38	3.5		
1523	7.85 ic.	14- 0.249	29.0	O. O Ca	- 4.2		A	
1528	17.99 4.		27.0	0,45	-9.0	CUEA	I strong	
1533 2.5	15.02 6.	13 11. 658	7.4.1	0.04-	-4.5	L 1		
				-	-			
			<u> </u>				J	<u></u>
e. Acceptance cri	teria pass/fail		Yes No	N/A	399			
	uired volume been ren	roved			,			
Has req	uired turbidity been re	ached		r o				
	rameters stabilized							
	N/A - Explain below			. L				
							-	
SAMPLE COLLECT	ION: Method:	PERC1	PENNO		,	0.0		
Sample ID	Container Type	No. of Contain		servation	1	knal ysis		Time
12-1-12	520 ML		[4	703	THY	MULLIN	1 15	35
	44							
								_
							-	
						A		
			_				-	
Addition house					1			
Additional Comm	EEEL53							
	TOVU		Th:	ste:	12-11-	14		
Signature:	10000	4			-			



Client:		ASF				Dat	- 12	-10=14		
Project N	ame:	LUIL MO	la Das							
Site Local	tion:		4 9		di .	Star	ect Number t:	1505		am/pm
Weather	Conditions:	DUECCA	7F, 57	, LIGHT	WIND .		sh:			am/pm
WATER L a. Total Wel b. Water Tal Depth: WELL PUI a. Purge b. Accept	EVEL DATA: Length: ble RGING DATA: Method: tance Criteria - Minimum I - Maximum I	(measured f	d.	Fcasing) Casing Material Casing Diamete	- W	DV = wel	e Water l Length (a- f. Calculat Volume	Column b).		am/pm
c. Field To	esting Equipa	nent Used								
	Make	15T		Model			Serial I	Number		
d. Field T	esting Equipo	nent Calibra	tion Docu	mentation						
	Volume	1	1			1	Oxygen	1		
Time	Removed (gal)	T' {C/F}	ρH	Specific Conductivity	Turbidity (NTUs)	Dissolved Oxygen	Reduction Potential	Color	Odor	Other
1548	4.0	18.75	6.84	7.504	la Li	0.51	-/31	PLE 1	PANKIE	1
1553		18.7L	693	7.475	59.4	12.18	-125	(4		ŧ
1558		18.71	694	7.4-77	55,7	0.13	-151_	CLEAN		1
The Line		18.68		7.451	54.4	2.4	-135	11		
التنا	1,5	15,72	علىكدتك	7.422	1. t	O LEC.	-154			
	ance criteria Has required Has required Have parame If No or N/A -	volume bee turbidity be ters stabilize	en reache ed	1	Yes No	N/A				
SAMPLE C	DUECTION:	Meth	od: A	era i pu	mp.					
Samp	le ID	Container T	ype I	lo, of Contain	ers Pres	servation	I A	nalysis		ime
Paul		128 M		1	نبم	2,50	CH	LOCINE	16	-10
									4	
							-		-	
				_			-			
		-					į.			
		-			7	-				
			1							
Additional	Comments:									
= Signature:		TOVA	1.		Date	e: 17	-10-12	1		





Client:	Disir.			Date	12-1	U-14		
Project Name:	WHIN WAY	N.			ct Number:			
				Start	<u> </u>	44.5		am/pm
Weather Condition	SE DEPCAST, S	70's Stea	724	Finis	h:	12051		am/pm
		,	1					
	A: (measured from top			Par.	. Balana es	tati sana		
. Total Well Length:	The second second second	E. Casing Material:		/	e. Water C Length (a-L			
). Water Table Depth:	4.70	d. Casing Diameter	·	₫ a	f. Calculate Volume:			
WELL PURGING D	ATA:	. =						
a. Purge Method:	Lon	- FLEW						
b. Acceptance Crit								
- Minim	um Required Purge Volu	ime (@	NA	well	volumes)			
- Maxim	ium Allowable Turbidity	10	N	TUs				
- Stabilio	gation of Parameters	10		%				
c. Field Testing Eq	uipment Used							
Make _	YSI	Model			Serial f	tumber		
d. Field Testing Ed	juipment Calibration Do	cumentation						
	cef. of					1 1		1
Volun		Specific	Turbidity	Dissolved	Oxygen Reduction	Color	Odor	Other
Time Remov	1 ' ' ' '	Conductivity	(NTUs)	Oxygen	Potential			
144F 0		70,721	1715	2.01	195-1	CLEA	C.	
453	17.55 6.5	2 C. ZZZ	Cil	2.22	64.7	4.4	4-11-14	
14-57	17.52 6.5		C. 1 .	2.35	83.1			1
1500 1,2	5 17.54 6.5	30.122	(2.1	2.34	B2.4	11	_	-
							and a	
				1	==			4
				.1		4		
e. Acceptance crit			Yes No	N/A	-			
-	uired volume been remo] 말	A STATE OF THE STA			
Has regi	uired turbidity been read	ched						
	rameters stabilized							
If No or	N/A – Explain below							
		-			_			
	mar. Makhadi	Perci	PUMP	3				
the state of the s	ION: Method:	No. of Contain		eservation		Analysis		Time
Sample ID	Container Type	No. bi Contain		ONE		LYCINE	- Carlo Co	5273
7-10-11	1 - 3 1 -					19	1	
British and the second of the								
							_	
					1			
					!			
E-Silver								
Additional Comm	ents.	- 14		-	-			
Anto-dial 811	1004		Б.	-has	12-10-	-14		
Signature:			L) i	ate:				



		REL MOUSHED 87 (2)			COLLECTEDA	Ę									4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	D 80		SPECIAL DELIVERABLES:	REPORT LEVEL ISSURES (\$15).	TURN AROUND TWE	SITE AFF	CUOTER	PROJECT INFO
		D 8* '2)		1	COLLECTED/RELINQUISHED BY (1)-			A COLOR	and the state of t	CITY - JAM		MAGICE - DIAM	Niet = 37.10		ME - 46	SAMPLE ID / DESCRIPTION	The state of the s	PARLES: State of Ong n	iseareverse, "Levol" Leve III Leve				
		DATE			DATE													_	Sel Les				
		Total			THANK		THE	13		[P+3]	7		1	73		DATE	ADDRESS	i 65 k	DANI	170 200 300	PIONE.	ADDRESS	SEND DO
			-					14:00		1100	ī	1		ī	3	TIME		CCMPANY	INVOIGE TO: I	EVAL	íņ.		SEND DOCUMENTO
		48 CE 7 ED 87			RECEIVED BY:											MS MSD DUP		20,120	O-ECKIE SAUB		1-7m2-3m	Anthony Later	SEND DOCUMENTATION / RESULTS TO:
						1	on .	4	n	m	5/4		2	ŝY	0	TYPE (C, G)						N. Y.	
						D.			100 N	6	- Anna Carlo	10	100	2	S. N	MATRIX						N. Decorate	
							=						=		1	CONT.	Į.					100	5/1
3	Ď.	Çņ.	2	940	23 Oko	, % .	34		<	۲.		b<	×) of marks	CESTIC	AMALYS	1 1 1	inti int	PRESERVATIVE		PECA
NOTES	CARRIER	HE ETIAM	COCSEAL		1 CENED					×							Thomas	ANALYSIS & METHOD	11/1	113	VATIVE		INSTRU
		SAMPLE RECEIPTIEMP: TO	STAN		MIOLYBOGYT AR CEALEDFE		~											- 100 -					PECIAL INSTRUCTIONS / COMMENTS:
	TPACK NO #:	0,	100												?								MENTS:
	55		ABSENT		1 200			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								REMARKS		where sale					

SWASHING HUBBANS



			20750							-			
6)	THACKING #	CAMILIA	04										
	್ಮ	SAMPLE BECEIPT TEMP TO (248				RECEIVED SY	RECE		-1 조 10	D 37-11		REL NOU EHED BY (2)
ABSERT	BPOKEN	COC SEAL INTACT	CO								101121		
		THE - 12-14-31							Ì				
12/11	SATE	RECEIVED BY LABORATORY	100 m				RECEIVED BY:	FROM		TIME	DATE	COLLECTED/RELINQUISHED BY (1):	CLLECTEDAR
				Didn'y	8	<u> </u>		A	A A				
					1,3			0	100	13			
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				=	4		distribution of the state of th	-	5			- E18 - F15	il.
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		24.5		ART I	· 3.				Ŗř.		Default of the second		
REMARKS				ΩΤΥ	MATRIX	6,0	AND DUP	MS	TIME	DATE		SAMPLE ID / DESCRIPTION	LABID
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Appendix B Laboratory Analytical Report



Laboratory Report of Analysis

To: Rusty Norris

ELM Site Solutions P.O. Box 97607 Raleigh, NC 27624

Report Number: 31401993

Client Project: BASF Wilmington

Dear Rusty Norris,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,

SGS North America Inc.

Digitally signed by: Michael Page DN: CN = Michael Page C = US O = SGS North

America OU = Environmental Services Date: 2014.12.17 10:11:19 -04'00'

Michael D. Page

Project Manager michael.page@sgs.com Date

Print Date: 12/17/2014

N.C. Carlification fr. (1971)

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SGS Environmental Services

5500 Business Drive

Wilmington, NC 28405 +1 910 350 1903 | +1 866 846 8290

www.sgs.com



Laboratory Qualifiers

Report Definitions

DL Method, Instrument, or Estimated Detection Limit per Analytical Method

CL Control Limits for the recovery result of a parameter

LOQ Reporting Limit
DF Dilution Factor

RPD Relative Percent Difference

LCS(D) Laboratory Control Spike (Duplicate)

MS(D) Matrix Spike (Duplicate)

MB Method Blank

Qualifier Definitions

Recovery or RPD outside of control limits

B Analyte was detected in the Lab Method Blank at a level above the LOQ

U Undetected (Reported as ND or < DL)

J Estimated Concentration.

E Amount detected is greater than the Upper Calibration Limit

TIC Tentatively Identified Compound

ND Not Detected

P RPD > 40% between results of dual columns

D Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

M2 Software did not integrate peak

M3 Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)

M4 Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)

M5 Other - Explained in case narrative

Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Print Date: 12770114

Note



Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
MW-46	31401993001	12/09/2014 09:30	12/12/2014 14:47	Water
MW-43	31401993002	12/09/2014 10:00	12/12/2014 14:47	Water
MW-32D	31401993003	12/09/2014 10:25	12/12/2014 14:47	Water
MW-34DA	31401993004	12/09/2014 10:50	12/12/2014 14:47	Water
MW-33D	31401993005	12/09/2014 11:10	12/12/2014 14:47	Water
MW-31D	31401993006	12/09/2014 12:00	12/12/2014 14:47	Water
MW-24D	31401993007	12/09/2014 13:25	12/12/2014 14:47	Water
MW-30D	31401993008	12/09/2014 14:00	12/12/2014 14:47	Water
MW-28D	31401993009	12/09/2014 14:30	12/12/2014 14:47	Water
RW-12	31401993010	12/09/2014 15:35	12/12/2014 14:47	Water
RW-11	31401993011	12/09/2014 16:00	12/12/2014 14:47	Water
MW-13D	31401993012	12/09/2014 16:40	12/12/2014 14:47	Water
RW-10	31401993013	12/10/2014 09:10	12/12/2014 14:47	Water
MW-12D	31401993014	12/10/2014 10:00	12/12/2014 14:47	Water
RW-4	31401993015	12/10/2014 10:25	12/12/2014 14:47	Water
MW-39D	31401993016	12/10/2014 11:00	12/12/2014 14:47	Water
MW-17D	31401993017	12/10/2014 11:30	12/12/2014 14:47	Water
MW-18D	31401993018	12/10/2014 12:05	12/12/2014 14:47	Water
RW-6	31401993019	12/10/2014 13:50	12/12/2014 14:47	Water
RW-8	31401993020	12/10/2014 14:15	12/12/2014 14:47	Water
MW-15D	31401993021	12/10/2014 14:35	12/12/2014 14:47	Water
RW-19	31401993022	12/10/2014 15:00	12/12/2014 14:47	Water
RW-18	31401993023	12/10/2014 16:10	12/12/2014 14:47	Water
MW-14D	31401993024	12/11/2014 10:40	12/12/2014 14:47	Water
DP-2	31401993025	12/11/2014 11:05	12/12/2014 14:47	Water
MW-11D	31401993026	12/11/2014 12:00	12/12/2014 14:47	Water
MW-8D	31401993027	12/11/2014 12:35	12/12/2014 14:47	Water
MW-7	31401993028	12/11/2014 13:05	12/12/2014 14:47	Water
RW-1	31401993029	12/11/2014 15:15	12/12/2014 14:47	Water
MW-2D	31401993030	12/11/2014 16:05	12/12/2014 14:47	Water
MW-3D	31401993031	12/11/2014 16:50	12/12/2014 14:47	Water
DP-6	31401993032	12/12/2014 09:20	12/12/2014 14:47	Water
MW-4	31401993033	12/12/2014 10:00	12/12/2014 14:47	Water
MW-21D	31401993034	12/12/2014 11:30	12/12/2014 14:47	Water
MW-6	31401993035	12/12/2014 12:00	12/12/2014 14:47	Water

Print Date: 12/17/2014 N.C. Certification # 481



Results of MW-46

Client Sample ID: MW-46

Client Project ID: BASF Wilmington Lab Sample iD: 31401993001-A Lab Project ID: 31401993 Collection Date: 12/09/2014 09:30 Received Date: 12/12/2014 14:47

Matrix: Water

Results by **SW-846 6020A**

<u>Parameter</u> Result Qual <u>DL</u> LOQ/CL <u>DF</u> Date Analyzed <u>Units</u> Thallium ND Ų 0.0000297 0.000500 mg/L 1 12/15/2014 16:30

Batch Information

Analytical Batch: MMS1399
Analytical Method: SW-846 6020A

Instrument: ICPMS2 Analyst: PSW Prep Batch: MXX3766
Prep Method: SW-848 3010A
Prep Date/Time: 12/15/2014 07:59
Prep Initial Wt./Vol.: 50 mL

Prep Extract Vol: 50 mL



Results of MW-46

Client Sample ID: MW-46

Client Project ID: BASF Wilmington Lab Sample ID: 3140199300- A2

Lab Project ID: 31401993

Collection Date: 1-/09/-014 10:00 Received Date: 1-/1-/-014 14:47

Matrix: Water

Results by SW-840 02a2A

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	DF	Date 2 nalyzed
Thallium	ND	U	0.0000-97	0.000500	mg/L	1	1-/15/-014 16:33

Bothl fnroXmotion

2nalytical Batch: MMS1699 2 nalytical Method: SW-840 02a2A

Instrument: fCPMSa 2 malyst: PSW

Prep Batch: M336700 Prep Method: SW-840 6212A Prep Date/Time: 1a/15/a214 27:59 Prep Initial Wt./Vol.: 52 mL

Prep Extract Vol: 52 mL

Print Date: 1-717/-014 N.C. Certification # 451



v euUtu oz**MW-32D**

Client Sample ID: MW-32D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993003-A Lab Project ID: 31401993 Collection Date: 12/09/2014 10:2R v eceide7 Date: 12/12/2014 14:4M

x atriW Oater

v euUtu bf SW-846 6020A

<u>Parameter</u> v euUt s Ual <u>DL</u> LQs /CL <u>Fnitu</u> Date Analf Te7 <u>Dy</u> hNalliUm F gD 05000029M 05000R00 m./L 1 12/1R/2014 16:43

Batch Information

Analf tical BatcN MMS1399
Analf tical x etNb7: SW-846 6020A

InutrUment: ICPMS2 Analfut: PSW Prep BatcN MXX3766
Prep x etNb7: SW-846 3010A
Prep Date/hime: 12/15/2014 07:59
Prep Initial Ot5/Vol5 50 mL

Prep EV/ract Vol: 50 mL



v euUtu ozMW-32DB

Client Sample ID: MW-32DB Client Project ID: ABSF Wilmington Lab Sample ID: 31401993004-A

x atriW Oater

Collection Date: 12/09/2014 10:R0 v eceide7 Date: 12/12/2014 14:4M

Lab Project ID: 31401993

v euUtu bf SW-824 4606B

Parameter	v euUt	s Ual	DL	LQs /CL	<u>Fnitu</u>	<u>Dy</u>	Date Analf Te7
hNalliŲm	g D	F	05000029M	05000R00	m. /L	1	12/1R/2014 16:46

Aatch Information

Analf tical BatcNt MMS1399
Analf tical x etNb7: SW-824 4606B

InutrUment: ICPMS0 Analfut: PSW Prep BatcN MXX3744
Prep x etNo7: SW-824 3616B
Prep Date/hime: 10/15/0612 67:59
Prep Initial O t5/Vol5 56 mL

Prep EWract Vol: 56 mL

Print Date: 12/1M2014 g 555Certizication # 481



v euUtu ozMW-332

Client Sample ID: MW-332

Client Project ID: **DBASRV iI mmg m**Lab Sample ID: 3140199300- A2
Lab Project ID: 31401993

Collection Date: 1/R99R014 11:10 v eceide7 Date: 1/R/R014 14:4M

x atriW Oater

v euUtu bf AW-084F4606B

s Ual <u>DL</u> Date 2 nalf Te7 <u>Parameter</u> v euUt LQs **R**CL <u>Fnitu</u> <u>Dy</u> hNalliUm F 1/RI-R014 16:49 gD 050000/9M 05000-00 m. R. 1

Dagchfinft rl agt m

2nalf tical BatcN: MMA1399 2nalf tical x etNo7: AW-o84F4606B

InutrUment: ICPMA0 2 nalf ut: PAW

Prep BatcNt MXX3744
Prep x etNo7: AW-o8476616B
Prep DateRhime: 10/15/0618767:59
Prep Initial Ot5Vol5 56F L

Prep EWract Vol: 56# L

Print Date:



v euUtu oz MW-31D

Client Sample ID: MW-31D

Client Project ID: BASF Wilmington Lab Sample ID: 3140199300- A2 Lab Project ID: 31401993

x atriW Oater

Collection Date: 1/ R9R 014 1/:00

v eceide7 Date: 1/ RI/ R 014 14:4M

v euUtu bf SW-846 6020A

<u>Parameter</u>	v euUt	s Ual	<u>DL</u>	LQs RCL	<u>Fnitu</u>	Dy	Date 2 nalf Te7
2 ruenic	0.0176		0 19 00gg4	0 N 0g00	mhR.	10	1/ RI-R:014 11:/3
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56alliUm	j⊕ D	F	019000/9M	0 19 00g00	mhR.	1	1/ FlgR:014 1-:g/

Batch Information

2 nalf tical Batc6: MMS1399 2 nalf tical x et6o7: SW-846 6020A

InutrUment: ICPMS2 2nalfut: PSW

2nalf tical Batc6: MMS1400 2nalf tical x et6o7: SW-846 6020A

InutrUment: ICPMS2 2natful: PSW Prep Batc6: MXX3766
Prep x et6o7: SW-846 3010A
Prep DateRoime: 12/15/2014 07:59
Prep Initial OtNVolN 50 mL
Prep EVWact Vol: 50 mL

Prep Batc6: MXX3766
Prep x et6o7: SW-846 3010A
Prep Dater8ime: 12/15/2014 07:59
Prep Initial O throlbl 50 mL
Prep EWract Vol: 50 mL

Print Date: 1/ RMR014 NCNCertizication # 481



d euUtu ozMW-32D

Client Sample ID: MW-32D

Client Project ID: BASF Wilmington Lab Sample ID: 3140199300- A2 Lab Project ID: 31401993 Collection Date: 1/ R9R014 13:/ v decei7eMDate: 1/ R/ R014 14:4-

x atriW Oater

deuUtu bf SW-824 4636A

<u>Parameter</u> <u>d euUt</u> <u>s Ual</u> <u>DL</u> LQs RCL <u>Enitu</u> Date 2 nalf TeM <u>Dy</u> hNalliUm gЪ F 050000/9-05000v00 m. R. 1 1/ RVR014 16:vv

B0tac Inlofm0tion

2 nalf tical BatcN: MMS1X99 2 nalf tical x etNoM SW-824 4636A

InutrUment: ICPMS3
2nalf ut: PSW

Prep BatcN Mr r X744
Prep x etNbM SW-824 X616A
Prep DateRaime: 13/15/3612 67:59
Prep Initial Ot5Vol5 56 mL

Prep EWract Vol: 56 mL



Results of MW-32D

Client Sample ID: MW-32D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993008-A

Lab Project ID: 31401993

Collection Date: 12/09/2014 14:00 Received Date: 12/12/2014 14:47

Matrix: Water

Results by SW-846 6202A

Parameter	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Thallium	ND	U	0.0000297	0.000500	mg/L	1	12/15/2014 16:58

Batch Information

Analytical Batch: MMS1399
Analytical Method: SW-846 6202A

Instrument: ICPMS0 Analyst: PSW Prep Batch: MXX3766
Prep Method: SW-846 3212A
Prep Date/Time: 10/15/0214 27:59
Prep Initial Wt./Vol.: 52 mL

Prep Extract Vol: 52 mL

Print Date: 12/17/2014 N.C. Certification # 481



Results of MW-32D

Client Sample ID: MW-32D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993009-A Lab Project ID: 31401993 Collection Date: 12/09/2014 14:30 Received Date: 12/12/2014 14:47

Matrix: Water

Results by **SW-284 4636A**

 Parameter
 Result
 Qual
 DL
 LOQ/CL
 Units
 DF
 Date Analyzed

 Thallium
 ND
 U
 0.0000297
 0.000500
 mg/L
 1
 12/15/2014
 17:02

B0tac Inlofm0tion

Analytical Batch: MMS1X99
Analytical Method: SW-284 4636A

Instrument: ICPMS3
Analyst: PSW

Prep Batch: Mr r X744
Prep Method: SW-284 X616A
Prep Date/Time: 13/15/3618 67:59
Prep Initial Wt./Vol.: 56 mL

Prep Extract Vol: 56 mL

Print Date: 12/



v euUtu ozRW-12

Client Sample ID: RW-12

Client Project ID: BASF Wilmington Lab Sample ID: 31401993010-A

Lab Project ID: 31401993

Collection Date: 12/09/2014 1R3R v eceide7 Date: 12/12/2014 14:4M

x atriW Oater

v euUtu bf SW-846 6020A

Parameter	<u>v euUt</u>	s Ual	<u>DL</u>	LQs/CL	<u>Fnitu</u>	<u>Dy</u>	Date Analf Te7
hNaliiUm	g D	F	05000029M	05000R00	m. /L	î.	12/1R/2014 1M0R

Batch Information

Analf tical BatcNt MMS1399
Analf tical x etNo7: SW-846 6020A

InutrUment: ICPMS2 Analf ut: PSW Prep Batcht MXX3766
Prep x ethb7: SW-846 3010A
Prep Date/hime: 12/15/2014 07:59
Prep Initial O t5/Vol5 50 mL
Prep EV/ract Vol: 50 mL

Print Date: 12/1M2014 9:05Certification # 481



Results of RW-11

Client Sample ID: RW-11

Client Project ID: 2 BASRV iI mg m Lab Sample ID: 314019930118-Lab Project ID: 31401993 Collection Date: 1A2092A014 1/:00 Received Date: 1A2IA2A014 14:47

Matrix: Water

Results by AW-o84F4606B

 Parameter
 Result
 Qual
 DL
 LOQ2CL
 Units
 DF
 Date - nalvzed

 Thallium
 ND
 U
 0.0000A97
 0.000500
 mg2.
 1
 1A2152A014
 17:06

2 agchfinft ri agt m

- nalytical Batch: MMA1399 - nalytical Method: AW-08474606B

Instrument: ICPMA0 - nalyst: PAW

Prep Batch: MXX3744
Prep Method: AW-o84R616B
Prep Date2Time: 10/15/0618R67:59
Prep Initial Wt.2Vol.: 56R

Prep Extract Vol: 56R L



v euUtu ozMW-31D

Client Sample ID: MW-31D

Client Project ID: BASF Wilmington Lab Sample ID: 3140199301- 1/2

Lab Project ID: 31401993

Collection Date: 1-/09/-014 1R40 v eceide7 Date: 1-/1-/-014 14:4M

x atriW Oater

v euUtu bf SW-846 6020A

Parameter	<u>v euUt</u>	s <u>Ųal</u>	<u>DL</u>	LQs /CL	<u>F nitu</u>	Dy	Date 2 natf Te7
2 ruenic	0.0334		0 10 00gg4	0 19 0g00	mh/L	10	1-/1R/-014 11:-g

B7tac Injofm7tion

2nalfitical x etőo7: SW-846 6020A

InutrUment: ICPMS2 2nalf ut; PSW Prep atc5: Mr r 1X66
Prep x et5o7: SW-846 1030A
Prep Date/6ime: 32/35/2034 0X:59
Prep Initial O tMBolN 50 mL

Prep VWract Bol: 50 mL

Print Date: 1-71M-014 ENCNCertizication # 481



Results of RW-10

Client Sample ID: RW-10

Client Project ID: BASF Wilmington Lab Sample ID: 31401993013-A Lab Project ID: 31401993 Collection Date: 12/10/2014 09:10 Received Date: 12/12/2014 14:47

Matrix: Water

Results by EPA 300.0

 Parameter
 Result
 Qual
 DL
 LOQ/CL
 Units
 DF
 Date Analyzed

 CTloride
 3.43
 0N9314
 1N90
 mh/L
 1
 12/13/2014
 14:1g

Batch Information

Analytical . atcT: iNO3521 Analytical MetTod: EPA 300.0

Instrument: IC2 Analyst: PSW Prep MetTod: EPA 300.0

Prep Date/5ime: 12/13/2014 14:15 Prep Initial WtMBolN 10 mL Prep Vxtract Bol: 10 mL

Print Date: 12/17/2014 ENCINCertification # 481



Results of MW-12D

Client Sample ID: MW-12D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993014-A

Lab Project ID: 31401993

Collection Date: 12/10/2014 10:00 Received Date: 12/12/2014 14:47

Matrix: Water

Results by EPA 300.0

Parameter	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
CTloride	506		3 N 4	100	mh/L	100	12/1g/2014 1.:2.

Batch Information

Analytical SateT: INO3524 Analytical MetTod: EPA 300.0

Instrument: IC2 Analyst: PSW Prep Sate To INO3524 Prep MetTod: EPA 300.0

Prep Date/6ime: 12/15/2914 16:26 Prep Initial WtMBolN 10 mL Prep Vxtract Bol: 10 mL

Print Date: 12/17/2014 ENCNCertification # 481



v euUtu ozRW-4

Client Sample ID: RW-4

Client Project ID: BASF Wilmington Lab Sample ID: 3140199301- A2 Lab Project ID: 31401993 Collection Date: 1/R0R014 10:/-veceide7 Date: 1/R/R014 14:4M

x atriW Oater

v euUtu bf EPA 300.0

<u>Parameter</u>	<u>v euUt</u>	s Ual	<u>DL</u>	LQs RCL	<u>F nitu</u>	<u>Dy</u>	Date 2 nalf Te7
Chlori7e	290		0g814	10g0	mNR.	10	1/ RI- RO14 1M/ M

Batch Information

2 nalf tical . atch: INO3524 2 nalf tical x etho7: EPA 300.0

InutrUment: IC2 2nalf ut: PSW Prep x etho7: EPA 300.0

Prep Datel Sime: 12/15/2014 17:27
Prep Initial Otg Bolg 10 mL
Prep VWract Bol: 10 mL



v euUtu oz MW-32D

Client Sample ID: MW-32D

Client Project ID: BASF Wilmington Lab Sample ID: 3140199301- A2 Lab Project ID: 31401993 Collection Date: 1/R0R014 11:00 v eceide7 Date: 1/R/R014 14:4M

x atriW Oater

v euUtu bf SW-846 60a0A

Parameter	<u>v euUt</u>	s Uai	<u>DL</u>	LQs RCL	<u>Fnitu</u>	<u>Dy</u>	Date 2 nalf Te7
hNalliUm	gD	F	05000/ 9M	05000600	m. R.	1	1/R6R014 1M/4

Bcthl fnroXmction

2 nelf tical BatcN: MMS/ 322 2 nelf tical x etNo7: SW-846 60a0A

inutrUment: #GPMSa 2nalf ut: PSW Prep Batch: M773161
Prep x etNb7: SW-846 30/ 0A
Prep DateRime: / a5 : 50/ 4 0890/
Prep Initial OtSVol5 : 0 mL

Prep EVtract Vol: : 0 mL

Print Date: 1/ RMR 014 g \$C5Certizcation # 481



v esults of MW-12D

Client Sample ID: MW-12D

Client Project ID: BASF Wilmington Lab Sample ID: 3140199301- A2 Lab Project ID: 31401993 Collection Date: 1/R0R014 11:30 v eceide7 Date: 1/R/R014 14:4-

Matrix: Water

v esults by EPA 300.0

 Parameter
 v esult
 Qual
 DL
 LOQRCL
 Units
 DF
 Date 2 nalvze7

 CTlori7e
 21.0
 0N314
 10N9
 mhR.
 10
 1/ RigR014 1-:4

B5t6a mlp/m5tion

2 nalytical , atcT: **d** r 3NO4 2 nalytical MetTo7: **EPA 300,0**

Instrument: cCO 2nalyst: PSW Prep etc d r 3NO4 Prep MetTo7: EPA 300.0

Prep Datersime: 10/1N/0014 12:42
Prep Initial WtNBolN 10 mL
Prep Vxtract Bol: 10 mL

Print Date: 1/ R-R014



v euUtu ozMW-18D

Client Sample ID: MW-18D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993018-A

Lab Project ID: 31401993

Collection Date: 12/10/2014 12:0R v eceide7 Date: 12/12/2014 14:4M

x atriW Oater

v euUtu bf EPA 300.0

<u>Parameter</u>	<u>v euUt</u>	s Ual	<u>DL</u>	LQs /CL	<u>Enitu</u>	Dγ	Date Analf Te7
Chlori7e	14.8		0g0314	1 9 00	mN/L	1	12/13/2014 1.:3.

Batch Information

Analfitical Satelic INO3521
Analfitical x etho7: EPA 300.0

InutrUment: IC2 Analfut: PSW Prep 5atch: INO3521 Prep x etho7: EPA 300.0

Prep Date/6ime: 12/13/2014 16:36 Prep Initial OtgBolg 10 mL Prep VVtract Bol: 10 mL

Print Date: 12/1M2014 EgCgCertification # 481



Results of RW-6

Client Sample ID: RW-6

Client Project ID: BASF Wilmington Lab Sample ID: 31401993019-A Lab Project ID: 31401993 Collection Date: 12/10/2014 13:50 Received Date: 12/12/2014 14:47

Matrix: Water

Results by EPA 300.0

 Parameter
 Result
 Qual
 DL
 LOQ/CL
 Units
 DF
 Date Analyzed

 Chloride
 617
 3.14
 100
 mg/L
 100
 12/15/2014
 18:07

Batch Information

Analytical Batch: INO3524
Analytical Method: EPA 300.0

Instrument: IC2 Analyst: PSW Prep Batch: INO3524 Prep Method: EPA 300.0

Prep Date/Time: 12/15/2014 18:07
Prep Initial Wt./Vol : 10 mL
Prep Extract Vol: 10 mL

Print Dalle 12 To 3 Clinical Inc. Certification # 481



Results of RW-8

Client Sample ID: RW-8

Client Project ID: BASF Wilmington Lab Sample ID: 314019930-0/2 Lab Project ID: 31401993

Matrix: Water

Collection Date: 1-/10/-014 14:15 Received Date: 1-/1-/-014 14:47

Results by EPA 300.0

<u>Parameter</u> Result Qual <u>DL</u> LOQ/CL <u>Units</u> <u>DF</u> Date 2 naivzed 0.314 10 1-/15/-014 18:-7 Chloride 143 10.0 mg/L

Batch Information

2 nalytical Batch: INO3524 2 nalytical Method: EPA 300.0

Instrument: IC2 2nalyst: PSW

Prep Batch: INO3524 Prep Method: EPA 300.0

Prep Date/Time: 12/15/2014 18:27 Prep Initial Wt./Vol.: 10 mL

Prep Extract Vol: Iff mL

N.C. Certification # 481 Print Date: 1-717/-014



Results of MW-15D

Client Sample ID: MW-15D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993081-A Lab Project ID: 31401993 Collection Date: 1821028014 14:3/ Received Date: 1821828014 14:47

Matrix: Water

Results by EPA 300.0

 Parameter
 Result
 Qual
 DL
 LOQ2CL
 Units
 DF
 Date Analyzed

 C'Tloride
 19.5
 01/9314
 11/90
 mh2.
 1
 182/13/28/014
 1g:1.

Batch Information

Analytical SatcT: INO3521
Analytical MetTod: EPA 300.0

Instrument: IC2 Analyst: PSW Prep 5atcT: INO3521
Prep MetTod: EPA 300.0

Prep Date26ime: 12/13/2014 18:16
Prep Initial Wtt\Boi\t\ 10 mL
Prep Vxtract Bol: 10 mL

Hint Date: 00173014

ENCNCertification # 4g1



Results of RW-19

Client Sample ID: RW-19

Client Project |D: BASF Wilmington Lab Sample |D: 314019930-- #2

Lab Project ID: 31401993

Collection Date: 1-/10/- 014 15:00 Received Date: 1-/1-/- 014 14:47

Matrix: Water

Results by EPA 300.0

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	DF	Date 2 nalyzed
Chloride	13.1		0.0314	1.00	mg/L	1	1-/13/-014 18:37

Batch Information

2nalytical Batch: INO3521 2nalytical Method: EPA 300.0

Instrument: IC2 2 nalyst: PSW Prep Batch: tNO3521 Prep Method: EPA 300.0

Prep Date/Time: 12/13/2014 18:S7 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Cate: 1-717/-014 N.C. Certification # 481



Results of RW-8B

Client Sample ID: RW-8B

Client Project ID: ASF iWlm lgt dEg Lab Sample ID: 31401993083-A Lab Project ID: 31401993 Collection Date: 1821028014 1/:10 Received Date: 1821828014 14:47

Matrix: Water

Results by P3SI0..1

 Parameter
 Result
 Qual
 DL
 LOQ2CL
 Units
 DF
 Date Analyzed

 CTloride
 4aa.
 3N4
 100
 mh2.
 100
 1821g28014 1.:47

Achi ifgrEM cdEg

Analytical 5atcT: f05 0a42
Analytical MetTod: P3Si0. . 1

Instrument: fC4 Analyst: 3FW Prep 5atcT: fO5 0a42
Prep MetTod: P3Si0..1

Prep Date26ime: 84/8a/4, 82il8B:27 Prep Initial WttlBolN 8, in L Prep Vxtract Bol: 8, in L

Print Date: USANO III



5 eQsltQoyMW-14D

Client Sample ID: MW-14D

Client Project ID: **BASF Wilmington**Lab Sample ID: 314019930-4/2
Lab Project ID: 31401993

314019930-4/2 7 atriM x ater

5 eQsltQbF EPA 300.0

 Parameter
 5 eQsit
 Osal
 DL
 LWO/CL
 unitQ
 DU
 Date 2nalFf ev

 Czlorive
 1250
 3gl4
 100
 mh/L
 100
 1-/1./-014
 19:48

Batch Information

2nalFtical Batcz: INO3524 2nalFtical 7 etzov: EPA 380.0

InQrament: IC2 2nalFQ: PSW Prep Batcz: INO3524 Prep 7 etzov: EPA 306.0

Prep Date/Time: 12/15/2014 19:48 Prep Initial x tg/Volg 10 mL

Collection Date: 1-/11/-014 10:40

5 eceiRev Date: 1-/1-/-014 14:4d

Prep EMract Vol: 10 mL

Print Date: 1-7/db-914 NgCgCertification # 481



v euUtu ozMW3

Client Sample ID: MW3

Client Project ID: 2 DBASF il mg m Lab Sample ID: 314019930- A2/ Lab Project ID: 31401993 Collection Date: 1-R1R014 11:0A veceide7 Date: 1-R-R014 14:4M

x atriW Oater

v euUtu bf BF -08451636D

<u>Parameter</u> <u>y euUt</u> s Ual DL LQs RCL <u>Fnitu</u> Date / nalf Te7 <u>Dy</u> hNalliUm g D F 050000-9M 05000A00 m. R. 1 1-RIAR014 1M33

20 gac Smit fil 0 gt m

/ nalf tical BateNt r r B/ 7CC / nalf tical x etNo7: BF -0849636D

InutrUment: IPWr B3 / nalf ut: VIBF

Prep BatcN: r XX7141

Prep x etNo7: BF -o845/6/6D

Prep DateRhime: / 35: 536/835096/

Prep Initial Ot5Vol5: 65 L

Prep EVWract Vol: :68 L

Print Date: # ### 81



Results of MW-118

Client Sample ID: MW-118

Client Project ID: DBASRV II mmg m Lab Sample ID: 3140199308- A2

Lab Project ID: 31401993

Collection Date: 18/11/8014 18:00 Received Date: 18/18/8014 14:47

Matrix: Water

Results by oEB#P3308

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date 2 nalyzed
CTloride	. 41		3N4	100	mh/L	100	18/1g/8014 80:0.

Dagchfinft rl agt m

Zinalytical Satol': INOP. 52 2nalytical MetTod: oEBIP3308

Instrument: IC5 2 nalyst: EAW Prep 5atcT: INOP, 52 Prep MetTod: oEBIP3308

Prep Date/6ime: 15/1./5312#6363: Prep Initial WtNBolN 13# L Prep Vxtract Bol: 15W L

Print Date: 18/17/8014 ERCNCertification # 4



d euUtu oz MW-31

Client Sample ID: MW-31

Client Project ID: DBASRV iI mmg m Lab Sample ID: 314019930-A2 Lab Project ID: 31401993 Collection Date: 1-R1R014 1-:3v decei7eMDate: 1-R-R014 14:4A

x atriW Oater

deuUtu bf AW-308R464B

<u>Parameter</u>	<u>d euUt</u>	s Ual	<u>DL</u>	LQs ICL	<u>F nitu</u>	<u>Dy</u>	Date Tnalf heM
Truenic	40142. o		0g0000vv4	00v00g0	mNR.	1	1-RvR014 1A:3.

D7gacFimilt fil 7gt m

Tnalf tical / atc5: MMA2X
Tnalf tical x et5oM AW-3o8R464B

InutrUment: ICPMA6
Tnalfut: PAW

Prep / atc5: Mr r Xi 8/
Prep x et5oM AW-3o8F4424B
Prep DateF6ime: 2652: 5642oF43942
Prep initial OtgBolg: 4ff

Prep VVtract Bol: : 4F L



v esults of MW-8D

Client Sample ID: MW-8D

Client Project ID: BASF Wilmington Lab Sample ID: 314019930- A2 Lab Project ID: 31401993 Collection Date: 1-5115 014 1-:3R v eceide7 Date: 1-51-5 014 14:4A

Matrix: Water

v esults by EPA 300.0

 Parameter
 v esult
 Qual
 DL
 LOQ5CL
 Units
 DF
 Date / nalyze7

 Chlori7e
 74.6
 0.314
 10.0
 mg5L
 10
 1-51R5 014 - 0:-8

Batch Information

/ nalytical Batch: INO3524 / nalytical Metho7: EPA 300.0

Instrument: IC2 I nalyst: PSW Prep Batch: INO3524 Prep Metho7: EPA 300.0

Prep Date5Time: 12/15/2014 20:28 Prep Initial Wt.5/ol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 1-5IA5 014 N.C. Certification # 481



Results of MW-7

Client Sample ID: MW-7

Client Project ID: BASF Wilmington Lab Sample ID: 31401993028-B Lab Project ID: 31401993 Collection Date: 12/11/2014 13:05 Received Date: 12/12/2014 14:47

Matrix: Water

Results by SW-846 6020A

<u>Parameter</u>	Result	Qual	DL	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Arsenic	0.0000800	J	0.0000554	0.000500	mg/L	1	12/15/2014 17:39
Thallium	ND	U	0.0000297	0.000500	mg/L		12/15/2014 17:39

Batch Information

Analytical Batch: MMS1399
Analytical Method. SW-846 6020A

Instrument: ICPMS2 Analyst: PSW Prep Batch: MXX3767
Prep Method: SW-846 3010A
Prep Date/Time: 12/15/2014 08:01
Prep Initial Wt./Vol.: 50 mL

Prep Extract Vol: 50 mL



v euUtu ozMW-7

Client Sample ID: MW-7

Client Project ID: BASF Wilmington Lab Sample ID: 314019930-A2 Lab Project ID: 31401993 Collection Date: 1-5115 014 13:0R v eceide7 Date: 1-51-5 014 14:4M

x atriW Oater

v euUtu bf EPA 300.0

Parameter	<u>v euUt</u>	s Ual	<u>DL</u>	LQs 5CL	<u>F nitu</u>	Dy	Date / nalf he7
Cglori7e	5.29		080314	1800	m. 5 L	1	1-5135 014:3A

Batch Information

/ nalf tical Bateg: INO3521 / nalf tical x etgo7: EPA 300.0

inutrUment: IG2 I nalf ut: PSW Prep Bateg: INO3521 Prep x etgo7: EPA 300.0

Prep Date5Fime: 12/13/2014 22:38
Prep Initial O188/ol8 10 mL
Prep EV/ract Voi: 10 mL

Print Date: ~5.N6-014 N8C8Certizication # 4A1



v euUtu ozRW-1

Client Sample ID: RW-1

Client Project ID: BASF Wilmington Lab Sample ID: 314019930-9/2 Lab Project ID: 31401993 Collection Date: 1-/11/-014 1R1R v eceide7 Date: 1-/1-/-014 14:4M

x atri₩ Oater

v euUtu bf SW-846 6020A

 Parameter
 v euUt
 s Ual
 DL
 LQs /CL
 Fnitu
 Dy
 Date Tnalf he7

 Truenic
 0,000820
 0,0000RR4
 0,000R00
 mN/L
 1
 1-/1R/-014 1M4

Batch Information

Tnalf tical 2 atc. : MMS1399
Tnalf tical x et. o7: SW-846 6020A

InutrUment: ICPMS2
Tnalf ut: PSW

Prep 2atc.: MXX3767
Prep x et. o7: SW-846 3010A
Prep Date/5ime: 12/15/2014 08:01
Prep Initial Otg/Bolg 50 mL

Prep VVtract Bol: 50 mL

Pers Outs 1-71M-014



Results of RW-1

Client Sample ID: RW-1

Client Project ID: BASF Wilmington Lab Sample ID: 314019930-9/2

Lab Project ID: 31401993

Collection Date: 1-/11/-014 15:15 Received Date: 1-/1-/-014 14:47

Matrix: Water

Results by EPA 300.0

 Parameter
 Result
 Qual
 DL
 LOQ/CL
 Units
 DF
 Date 2 nalyzed

 Chloride
 5.38
 0.0314
 1.00
 mg/L
 1
 1-/13/-014 --:58

Batch Information

2 nalytical Batch: INO3521 2 nalytical Method: EPA 300.0

Instrument: IC2 2nalyst: PSW Prep Batch: INO3521 Prep Method: EPA 300.0

Prep Date/Time: 12/13/2014 22:58 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 1-7/7/-014 N.C. Certification # 481



deUFItUoTMW-31

Client Sample ID: MW-31

Client Project ID: **DBASFW iI mmg m**Lab Sample ID: 31401993030-A
Lab Project iD: 31401993

Collection Date: 12/11/2014 1R0v decei7eMDate: 12/12/2014 14:4x

WatriO Qater

deUFItUbz AW-084F4636B

Parameter	<u>d eUFIt</u>	<u>u Fal</u>	<u>DL</u>	Ls u /CL	<u>v nitU</u>	<u>Df</u>	Date h nalzNeM
hrUenic	6066344		0.0000vv4	0.000v00	mg/L	9	12/1v/2014 1x:4R

D2g 7 Famat H 2gt m

hnalztical Aatc5: MMAXI LL hnalztical Wet5oM AW-o84F4636B

InUrFment: aCPMA3
hnalzut: PAW

Prep Aatc5: MI I f r 4r
Prep Wet5oM AW-o84F 6X6B
Prep Date/6ime: X3/X5/36X8F6o:6X
Prep Initial Q t/Bol.: 56F 9

Prep VCtract Bol: 56R 9

E.C. Certification # 481



v euUtu oz**MW-2D**

Client Sample ID: MW-2D

Client Project ID: BASF Wilmington Lab Sample ID: 314019930308-Lab Project ID: 31401993 Collection Date: 1A2I12A014 1/:0R v eceide7 Date: 1A2IA2A014 14:4M

x atriW Oater

v euUtu bf EPA 300.0

<u>Parameter</u>	<u>v euUt</u>	s Ual	<u>DL</u>	LQs 2CL	<u>Fnitu</u>	Dγ	Date - nalf Te7
Chlori7e	31.0		0g0314	1g00	m N2 L	1	1A2i32A014 A3:1.

Batch Information

- nalf heal Setels: INO3521 - nalf tical x etho7: EPA 300.0

inutrUment: IC2 - nalf ut: PSW

Prep 5atch: INO3521 Prep x etho7: EPA 300.0

Prep Date26ime: 12/13/2014 23:18 Prep Initial OtgBolg 10 mL Prep VVtract Bol: 10 mL

Print Date: 1A21MP-014 EgCgCertizication # 4.



deUFItUoTMW-31

Client Sample ID: MW-31

Client Project ID: DBASRW iI mmg m Lab Sample ID: 31401993031-A Lab Project ID: 31401993 Collection Date: 12/11/2014 1Rv0 decei7eMDate: 12/12/2014 14:4x

WatriQ Qater

deUFItUbz AW-084FI606B

<u>Parameter</u>	<u>deUFIt</u>	u Fal	DL	Ls u /CL	<u>y nitU</u>	<u>Df</u>	Date h nalzNeM
hrUenic	626. 43		0.000vv4	0.00v00	mg/L	10	12/1R/2014 11:29
56alliFm	BD	у	0.000029x	0.000v00	mg/L	1	12/1v/2014 1x:49

D7gacFimit fl 7gt m

hnalztical Aatc6: MMAX3LL hnalztical Wet6oM AW-084P4606B

InUrFment: ICPMA0 hnalzU: PAW

hnalztical Aatc6: MMAX866 hnalztical Wet6oM AW-o84R606B

InUrFment: ICPMA0 hnalzU: PAW

Prep Aatc6: Mr r 3. 4.
Prep Wet6oM AW-084F36X6B
Prep Date/5ime: X0/X5/06X8F6o:6X
Prep Initial Q t./Vol.; 56F 9
Prep E@ract Vol: 56F 9

Prep Aatc6: Mr r 3. 4.
Prep Wet6oM AW-o84R6X6B
Prep Date/5ime: X0/X5/06X8R6o:6X
Prep Initial Q t./Vol.: 56R 9
Prep ECract Vol: 56R 9

Print Date: 12/1x/2014 B C. Certification # 481



v euUtu ozMW-18

Client Sample ID: MW-18

Client Project ID: **DBASRV iI mmg m**Lab Sample ID: 314019930318Lab Project ID: 31401993

Collection Date: 1A2I12A014 1/:R0 v eceide7 Date: 1A2IA2A014 14:4M

x atriW Oater

v euUtu bf oEBPIPP3P

 Parameter
 v euUt
 s Ual
 DL
 LQs 2CL
 F nitu
 Dy
 Date - nalf Te7

 Chlori7e
 0. P
 3gl4
 100
 mN2
 100
 1A2l R2N014 A0:4.

D4gac First fl 4gt m

- nalftical Satch: hr N1052 - nalftical x etho7: cEBRPP3

InutrUment: IC5 = nalf ut: EAW Prep 5 atch: Ir N1052 Prep x etho7: oEBRPPSP

Prep Date 25ime: . 5/. 0/5P. 2R5P62:
Prep Initial Otg/Bolg . Pff II
Prep VWract Bol: . Pfl I.

Print Date: 1A2IMA014 EgCgCertizcation # 4.



5 eQsltQoyMW3

Client Sample ID: MW3

Client Project ID: 1DBAS II mmg m Lab Sample ID: 3140199303- A2 Lab Project ID: 31401993 Collection Date: 1-/1-/-014 09:-0 5 eceiRev Date: 1-/1-/-014 14:4d

7 atriM x ater

5 eQsltQbF BF -08333464D

<u>Parameter</u>	<u>5 eOslt</u>	Osal	DL	LWO/CL	<u>u nitQ</u>	<u>DU</u>	Date 2 nalFf ev
2 rQenic	40144334		0l0000gg4	0 1000g00	mz/L	1	1-/1g/-014 1d:g.
8Ballism	TD	u	0Ю000-9d	01000g00	mz/L	1	1-/1g/-014 1d:g.

12g 75mmt H 2gt m

2 naiFtical VatcB; | | B/ r CC 2 naiFtical 7 etBov: BF -083\$464D

InQrsment: aPW B6 2nalFQ: WBF Prep Vat B I ffr X3X
Prep 7 etBov: BF -083\$ 4/ 4D
Prep Date/8ime: / 65: 564/ 858/094/
Prep Initial x tt/Eolh : 4\$ L

Prep NMract Eol: :48 L



5 eQsltQoyMW-7

Client Sample ID: MW-7

Client Project ID: BASF Wilmington Lab Sample ID: 31401993033-A

Lab Project ID: 31401993

Collection Date: 12/12/2014 10:00 5 eceiRev Date: 12/12/2014 14:4d

7 atriM x ater

5 eQsltQbF SW-874 4606A

 Parameter
 5 eQslt
 Osal
 DL
 LWO/CL
 unitQ
 DU
 Date AnalFf ev

 ArQenic
 62664.6
 0l0000gg4
 0l000gg00
 mz/L
 1
 12/1g/2014 1.:01

Batch Information

AnalPtical 8 atcB: MMS/ 399 AnalPtical 7 etBov: SW-874 4606A

InGrament: ICPMS0 Analeg: PSW Prep 8 atcB: MXX3141
Prep 7 etBov: SW-874 36/ 6A
Prep Date/Time: / 05 , 56/ 7 68:6/
Prep Initial x tbVolir , 6 mL

Prep EMract Vol: .6 mL

Print Date: 12/1d/2014 NiChCertycation # 4 +



Results of MW-21D

Client Sample ID: MW-21D

Client Project ID: BASF Wilmington Lab Sample ID: 31401993034-A Lab Project ID: 31401993 Collection Date: 12/12/2014 11:30 Received Date: 12/12/2014 14:47

Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Arsenic	0.0208		01000NN4	0100100	mT/L	10	12/1g/2014 11:31

Batch Information

Analytical . atc5: MM\$1400 Analytical Met5od: SW-846 6020A

Instrument: ICPMS2 Analyst: PSW Prep Met5od: SW-846 3010A
Prep Date/6ime: 12/15/2014 08:01
Prep Initial Wtt/Bolh 50 mL

Prep Vxtract Bol: 50 mL



5 eQsltQoyMW-7

Client Sample ID: MW-7

Client Project ID: **BASF Wilmington** Lab Sample ID: 314019930328-Lab Project ID: 31401993 Collection Date: 1B/1B/B014 1B:00 5 eceiRev Date: 1B/1B/B014 14:4d

7 atriM x ater

5 eQsltQbF SW-847 7606A

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SGS CHAIN OF CUSTODY | CONVENTIONAL & SHALE

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SEND DOCUMENTATION / RESULTS TO:

PROJECT: SASP WITH WATEN

PROJECT INFO:

SPECIAL INSTRUCTIONS / COMMENTS:

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26 GROWNINATO STANDARDS COMPANY ELM SITE SCUCTIONS

CONTACT RUTTY ASPRIS/ JEREMY WOOM

ADDRESS:

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INVOICE TO: 1 CHECK IF SAME

REPORT LEVEL: (see reverse) [. Level i [.:Level ii Level iv

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SPECIAL DELIVERABLES:

Other.

CONTACT DAVID COMPANY FL M 55

ANALYSIS & METHUD

PHONE 704-264-1736

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SES NORTH AMERICA INC.

ENVIRONMENTAL SERVICES 5500 Business Drive Writmington, NC 28405 910 350 1903 (910 794 1613 vevirinsgs.com)

Member of the 5GS Group ISGS SAI



CHAIN OF CUSTODY | CONVENTIONAL & SHALE

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SGS NORTH AMERICA INC.

ENVIRONMENTAL SERVICES 3500 Business Drive Whitmington, NC 28405 910 350 1903 | 910 794 1813 www.kgs.com

Member of the SGS Group (SGS SA)

CHAIN OF CUSTODY | CONVENTIONAL & SHALE STATIONAL

SPECIAL INSTRUCTIONS / COMMENTS:

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SPECIAL DELIVERABLES:

Other

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Page 46 of 48

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www.sgs.com



CHAIN OF CUSTODY | CONVENTIONAL & SHALE

3年回名 SPECIAL INSTRUCTIONS / COMMENTS:

- DETECTION LIKITS MUST MEET NEDENT

GRUNNMARA STANDARDS

PROJECT BASF WILMINGTON PROJECT INFO: PO. #

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100mg TURN AROUND TIME

REPORT LEVEL: (see raverse) Dillevel I Dillevel II Dillevel IV Cate of Orgin Other SPECIAL DELIVERABLES:

COMPANY ELM SITTE SOLUTIONS SEND DOCUMENTATION / RESULTS TO:

CONTACT. PUSTY NORRES ADDRESS:

PRIDITE 919-792-3733 EMAIL.

INVOICE TO: (CHECK IF SAME)

CONTROL

COMPANY ADDRESS:

EMAIL:

Page 47 of 48

PHONE

ANALYSIS & METHOD PRESERVATIVE DLON 44193

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ENVIRONMENTAL SERVICES | DSDD Businese Dress | Wilderspieck MC 284/05 | 910 050 18/05 | 916 754 1613 | www.sgs.com

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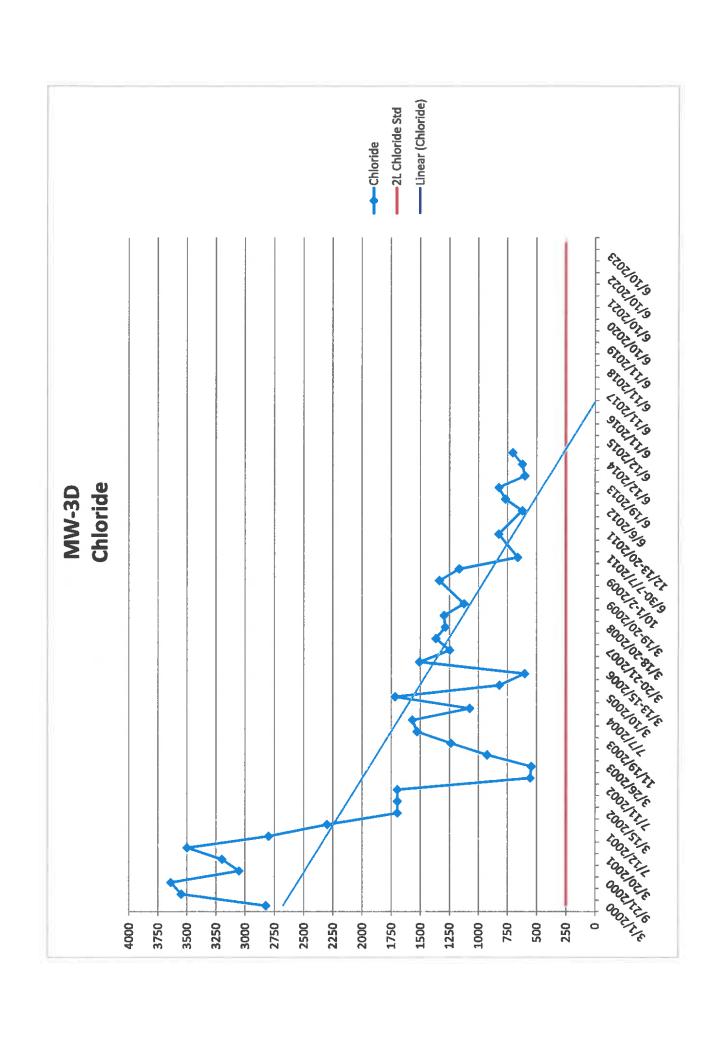
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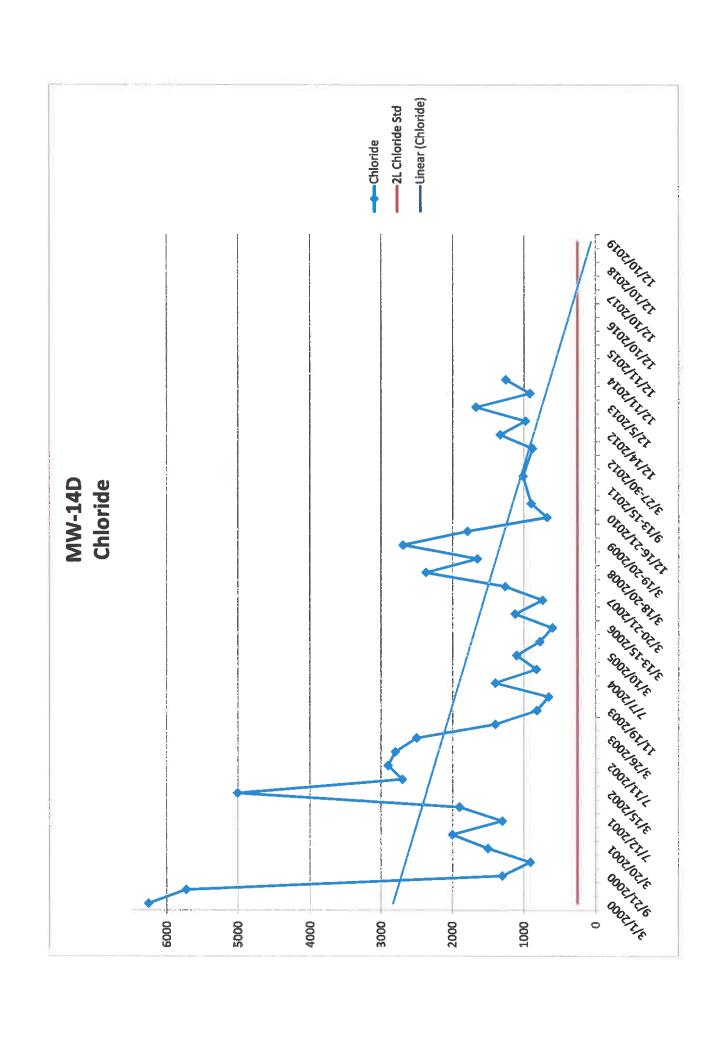
SGS North America Inc.

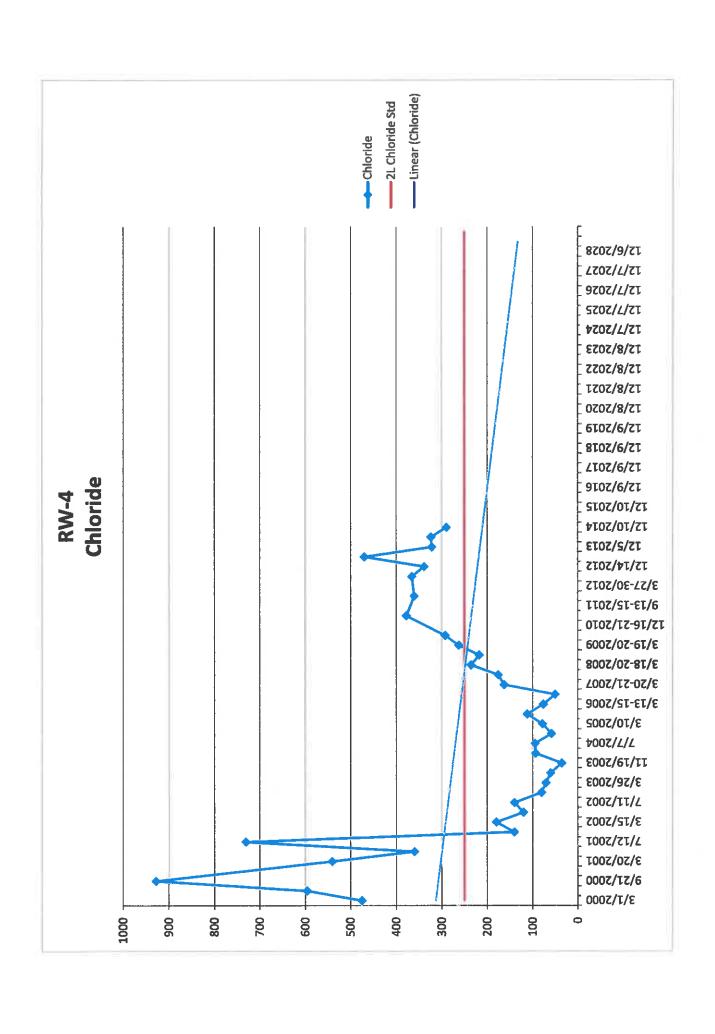
Sample Receipt Checklist (SRC)

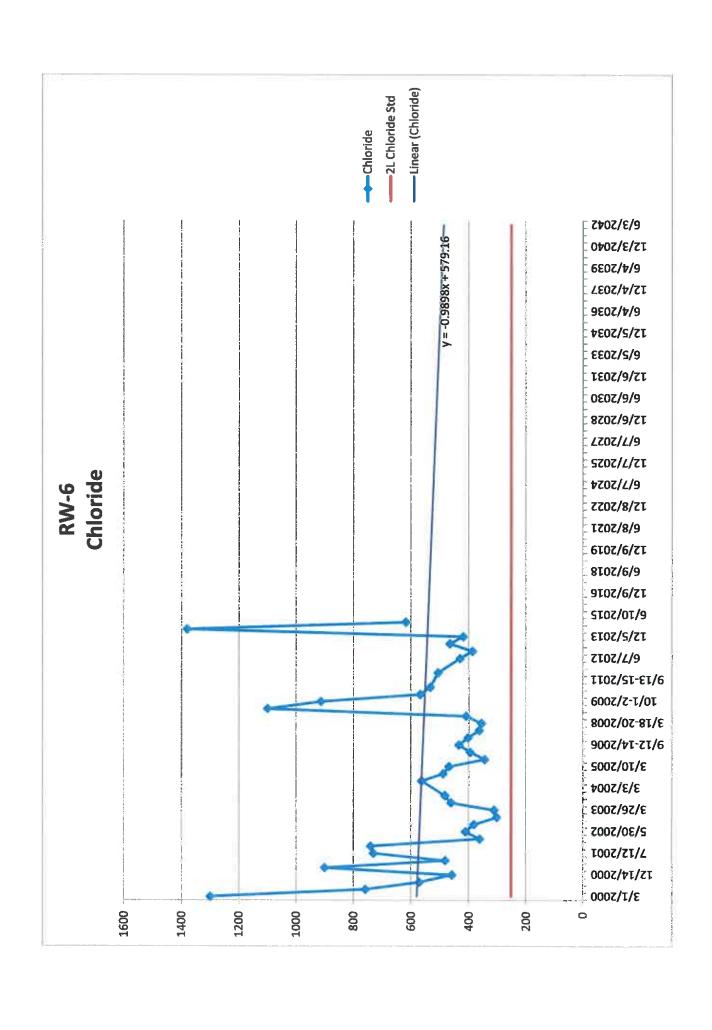
Client:	ELM Site Solutions	Work Order No.:	31401333
1.	Shipped X Hand Delivered	Notes:	
2.	X COC Present on Receipt No COC Additional Transmittal Forms		
3.	Custody Tape on Container X No Custody Tape		
4.	X Samples Intact Samples Broken / Leaking		
5.	X Chilled on Receipt Actual Temp.(s) in °C Ambient on Receipt Walk-in on Ice; Coming down to temp. Temperature Blank Present	0.0 The	rmometer ID#: 98465
6.	X Sufficient Sample Submitted Insufficient Sample Submitted		
7.	Chlorine absent X HNO3 < 2 HCL < 2 Additional Preservatives verified (see notes)		
8.	X Received Within Holding Time Not Received Within Holding Time		
9.	X No Discrepancies Noted Discrepancies Noted NCDENR notified of Discrepancies*		
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm		
Comments:			
	insp	ected and Logged in by: An	nalie Walker
		Date:	12/12/2014

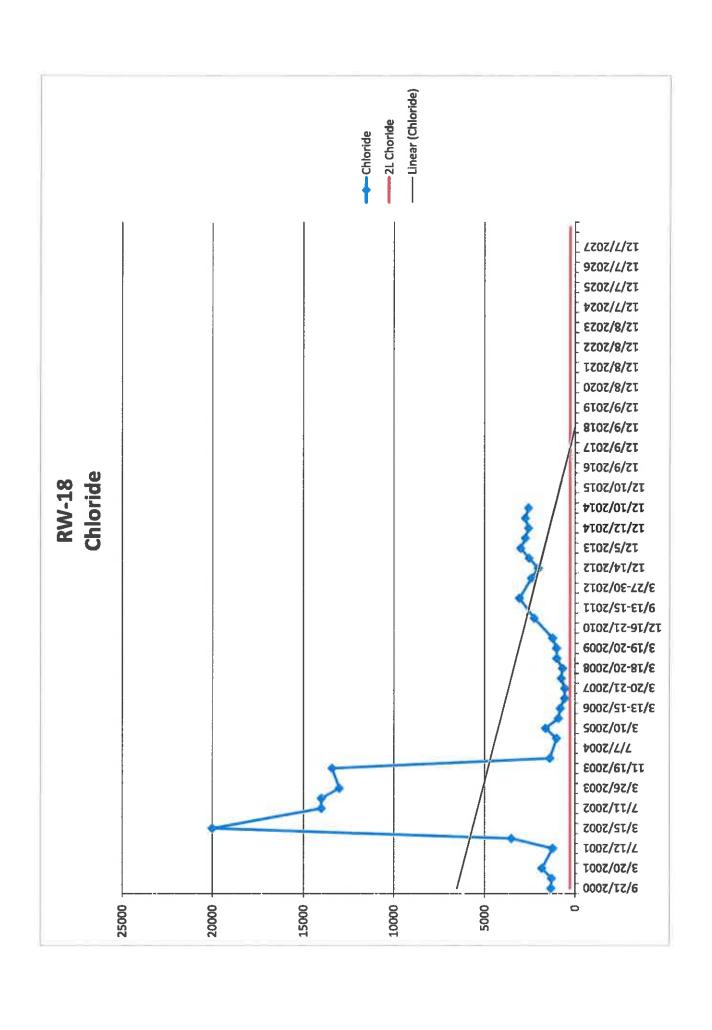
Appendix C Trend Graphs for Chloride













REC PROGRAM DOCUMENT CERTIFICA	
	Corporation - Wilmington, North Carolina
DATE & NAME OF DOCUMENT TYPE OF SURMITTAL (circle all that enalst): Re	Progress Monitoring Report #1 eport, Work plan, Work Phase Comp. Statement, Schedule Change
TITE OF SOCIETIAL (encie an dat apply).	eport, work plan, work rhase Comp. Statement, Schedule Change
REMEDIATING PARTY DOCU	MENT CERTIFICATION STATEMENT (.0306(B)(2))
submittal, including any and all documents acc	sonally examined and am familiar with the information contained in this companying this certification, and that, based on my inquiry of those
individuals immediately responsible for obtain	ning the information, the material and information contained herein is,
to the best of my knowledge and belief, true, a for willfully submitting false, inaccurate or inc	accurate and complete. I am aware that there are significant penalties
vinitury businessing raise, maccarate or me	Jonipiece information.
BASF Corporation - Vernon Burrows	
Name of Remediating Party	
le Co	3/25/2015
Signature of Remediating Party	Date
NOTARIZATION	
1	
(Enter State)	
Morris COUNTY	
I, Eleanor Sullivan , a	Notary Public of said County and State, do hereby certify that
	personally appear and sign before me this day, produced proper identification
	was duly sworn or affirmed, and declared that, to the best of his or her
	stigation, the information contained in the above certification is true and
accurate, and he or she then signed this Co	ertification in my presence,
WITNESS my hand and official seal this	25 day of March 2015.
90	
Notary Public (signature)	(OFFICIAL SEAL)
My commission expires:	

	ELEANOR M SULLIVAN
	Notary Public State of New Jersey
	My Commission Expires Apr 2, 2017

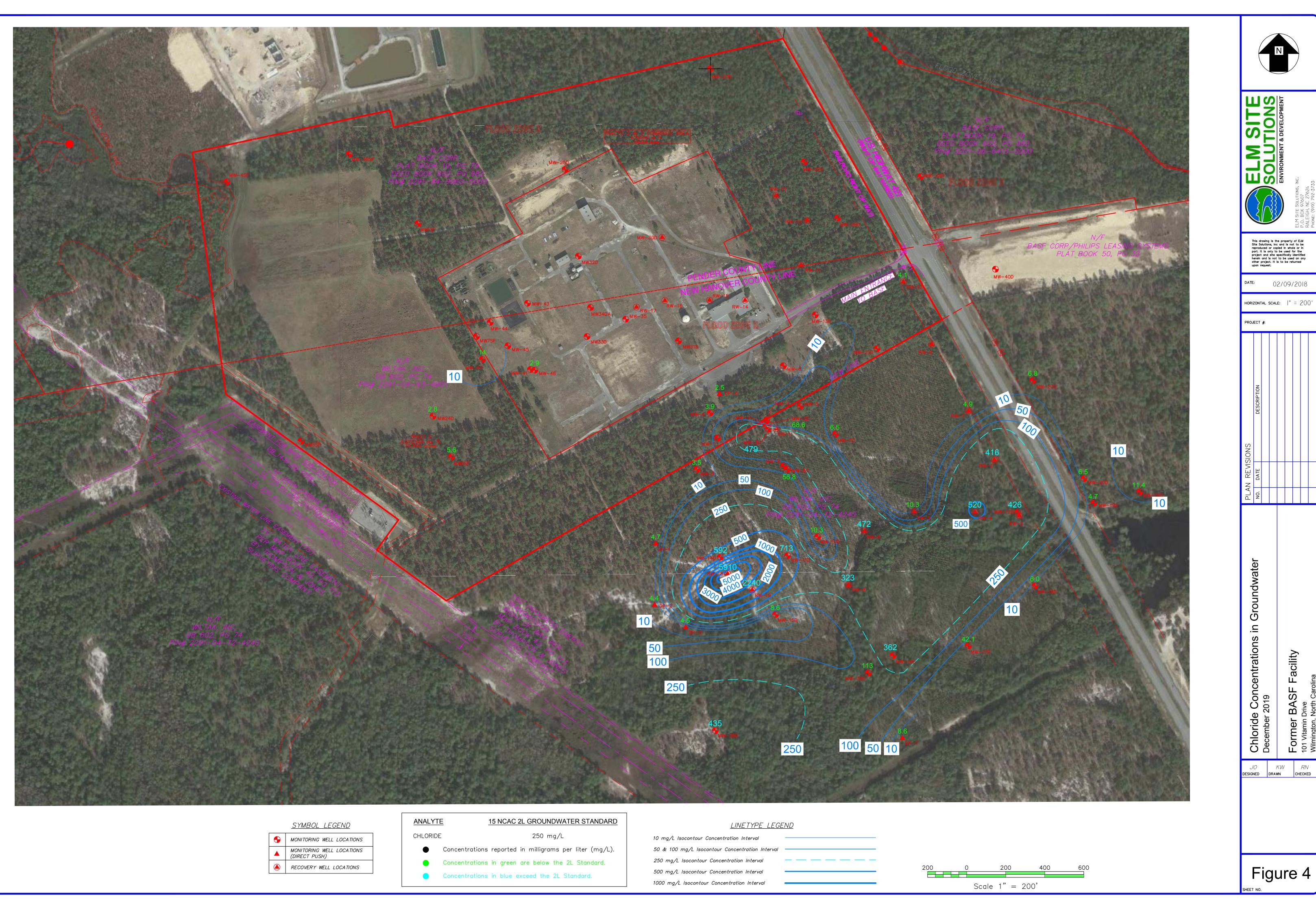
REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2 IHSB SITE NAME TAKEDA - BAS F COPPORATION - WILMINGTON NO DATE & NAME OF DOCUMENT PROGRESS MONITORNA REPORT #1 TYPE OF SUBMITTAL (circle all that apply): Report, Work plan. Work Phase Comp. Statement, Schedule Change
REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES
As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.
Name of Registered Site Manager Signature of Registered Site Manager Date
REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))
"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."
Signature of Registered Site Manager Date 14/15
NOTARIZATION
North Carolina (Enter State)
Franklin COUNTY
identification in the form of NCDL, a Notary Public of said County and State, do hereby certify that Roberts
duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best
of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is
true and accurate, and he or she then signed these Certifications in my presence.
WITNESS my hand and official seal this / day of ##11/ , 2015
Notary Public (signature)
My commission expires: 1/22/17 MICHELLE FUTRELL Notacy Public

Document Certification Form No. DC - II (Revised 8/11) Notary Public

Franklin County

North Carolina

My Commission Expires Jan 22, 2017



HORIZONTAL SCALE: | " = 200 |