

#17-1440

Tax Map # 30-32 and 30-33

BOOK 445 PAGE 001

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Remediation Program Site ID #: VAD098443443/VAD042755082

UECA ENVIRONMENTAL COVENANT

This environmental covenant is made and entered into as of the 15th day of August, 2017, by and between EAGLE REAL ESTATE, LLC, a Virginia limited liability company, whose address is 1020 Harris Street, Charlottesville, Virginia 22903 (hereinafter referred to as the "Grantor" or "Owner"), and EAGLE REAL ESTATE, LLC, a Virginia limited liability company, whose address is 1020 Harris Street, Charlottesville, Virginia 22903, (hereinafter referred to as the "Grantee" or "Holder").

The Virginia Department of Environmental Quality, whose address is 629 East Main Street, Richmond, Virginia 23219 (hereinafter referred to as the "Agency") also joins in this environmental covenant.

This environmental covenant is executed pursuant to the Virginia Uniform Environmental Covenants Act, § 10.1-1238 et seq. of the Code of Virginia (UECA). This environmental covenant subjects the Property identified in Paragraph 1 to the activity and use limitations in this document.

1. Property affected.

The property affected by this environmental covenant (Property) is a portion of certain tracts or parcels of land located along State Route 652 in the Marshall Magisterial District of Buckingham County, Virginia described as follows:

ALL those certain tracts or parcels of land lying and being in Buckingham County, Virginia, containing 42.34 acres and 181.137 acres, more or less, and more particularly described on plat of survey prepared by Engineering Design Associates, recorded May 14, 2013, in the Clerk's Office, Circuit Court, Buckingham County, Virginia, in Plat Cabinet A, Slides 232 A & B, to which plat reference is hereby made for a more particular description of said parcels.

BEING a portion of the same property conveyed to Allied Concrete Products, LLC, by Deed from Solite, LLC, dated June 30, 2011, and recorded November 28, 2011 in the Clerk's Office, Circuit Court, Buckingham County, Virginia, in Deed Book 394, page 224; and to Allied Concrete Products, LLC, by Deed of Partial Correction from Solite, LLC, dated June 30, 2011 recorded, March 5,

2013, in the Clerk's Office of the Circuit Court of Buckingham County, Virginia in Deed Book 405, page 244.

FURTHER BEING a portion of the same property conveyed to Eagle Real Estate, LLC, by Deed from Allied Concrete Products, LLC, dated June 30, 2015, and recorded in the Clerk's Office, Circuit Court, Buckingham County, Virginia, in Deed Book 425, page 187.

2. Description of Contamination & Remedy.

a. Identify the name and location of any administrative record for the environmental response project reflected in this UECA environmental covenant.

The Administrative Record for this environmental response project is known as "Allied Concrete Products, LLC/Giant Resource Recovery-Arvonja, Inc. Facility." A copy may be obtained from the Virginia Department of Environmental Quality, 629 East Main Street, Richmond, Virginia.

b. Describe the contamination and remedy relating to the Property, including descriptions of the Property before remedy implementation; contaminants of concern; pathways of exposure; limits on exposure; location and extent of contamination; and the remedy/corrective action undertaken.

A manufacturing facility (the "Manufacturing Facility") and a hazardous waste storage and blending facility (the "Blending Facility") formerly operated on the Property now owned by Eagle Real Estate LLC (Tax Map No. 30-32 and 30-33, consisting of, in total, 223.477 acres) and on an adjacent property now owned by Giant Resource Recovery, Inc. (Tax Map No. 30-36 consisting of 34.86 acres). The Manufacturing Facility operated four rotary lightweight aggregate industrial kilns that utilized liquid hazardous waste as fuel to produce lightweight aggregate. This aggregate was used in the manufacture of lightweight masonry units, lightweight pre-cast elements, structural concrete, and other building materials. The Blending Facility was located adjacent to the Manufacturing Facility. It stored and blended hazardous and non-hazardous liquid waste into fuel and transferred it through pipes to the Manufacturing Facility where it was combusted in the kilns. Both facilities were operated pursuant to Resource Conservation and Recovery Act ("RCRA") permits and other permits issued by the Agency.

All RCRA permitted units at the Property have completed RCRA closure, and all equipment at the Property used in connection with the Manufacturing Facility and the Blending Facility was removed during the RCRA closure process.

The Property is subject to the Corrective Action Program ("Corrective Action") under the Solid Waste Disposal Act, as amended by RCRA and the Hazardous and Solid Waste Amendments, 42 U.S.C. §§ 6901 et seq. From September, 2004 through January, 2014, 63 soil samples and 26 groundwater samples from 11 groundwater monitoring wells were collected and analyzed from the Property and the adjacent property now owned by Giant Resource Recovery, Inc. as part of the Corrective Action investigation. The samples were analyzed for volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); dioxins and furans; and total metals.

The soil analytical results were screened against both Industrial and Residential Regional Screening Levels (RSLs) for direct contact. The screening levels for non-carcinogenic analytical parameters were multiplied by a Hazard Quotient of 0.1. No VOCs, SVOCs, or dioxins and furans were detected in any of the soil samples above their respective Residential RSLs. Fifteen soil sample locations had at least one exceedance of the Industrial RSL for antimony, arsenic, cobalt, iron, manganese or thallium.

No VOCs or SVOCs were detected in the groundwater samples collected, but arsenic and manganese were detected above screening levels in two of the 11 groundwater monitoring wells and cobalt was detected above screening levels in one of those same wells.

A Comprehensive Site Evaluation Report, including a risk assessment, was submitted to the Agency in April 2014. Among other things, the risk assessment evaluated the metals in soil that exceeded Industrial RSLs and concluded that the Total Exposure Risk and Total Hazard Index were all acceptable and no remedial action was necessary for soil at the Property. The Report was approved by the Agency by letter dated December 3, 2015. A plan for groundwater monitoring was presented to the Agency in March 2014 and then revised by letter to the Agency dated June 7, 2016. The plan was approved by letter from the Agency dated January 3, 2017.

The Agency issued a Statement of Basis for the Property and the adjacent property on June 30, 2016. A copy of the Statement of Basis is attached as Exhibit A to this environmental covenant. On September 27, 2016, the Agency issued a final Class 2 modification to RCRA hazardous waste corrective action permit # VAD098443443 incorporating the remedy proposed in the Statement of Basis into the permit. The final remedy selected and incorporated into the permit was that no further action to remediate soil or groundwater contamination at the Property was necessary to protect human health or the environment under current and reasonably anticipated future land use. However, the Agency required that groundwater monitoring occur within the groundwater restriction area at the Property (described below) until such time as concentrations of certain hazardous constituents specified in Section 4.0.B of the Statement of Basis demonstrate a generally stable or decreasing trend. In addition, the Agency required that certain activity and use limitations be imposed on the Property. These activity and use limitations are imposed by this environmental covenant.

Groundwater monitoring events took place at the Property in June, 2016 and January, 2017. The analytical results from these events demonstrated a generally stable or decreasing trend. Accordingly, the Agency issued a letter dated March 23, 2017 which determined that groundwater monitoring is no longer required at the Property.

3. Activity & Use Limitations.

a. The Property is subject to the following activity and use limitations, which shall run with the land and become binding on Grantor(s) and any successors, assigns, tenants, agents, employees, and other persons under its (their) control, until such time as this covenant may terminate as provided by law:

1. The soil restriction areas of the Property (shown as Restricted Parcels 1, 2, 3 and 4 on the survey plat attached hereto as Exhibit B prepared by Koontz-Bryant, P.C., dated June 28, 2016 and entitled, in part, "Compiled Plat Showing Tax Parcels TM 30-32 and TM 30-33") shall not be used for residential purposes or for children's (under the age of 16) daycare facilities, schools or playground purposes.
2. Groundwater beneath the groundwater restriction area of the Property (shown on the survey plat attached hereto as Exhibit C prepared by Koontz-Bryant, P.C., dated August 17, 2016 and entitled, in part, "Compiled Plat Showing Groundwater Restriction Area on Tax Parcel TM 30-33") shall not be used for any purposes except for environmental monitoring and testing, or for non-contact industrial use as may be approved by VDEQ. Any new groundwater wells installed in the designated groundwater restriction area must be approved VDEQ.
3. Excavation in the soil restriction areas of the Property shall be conducted in accordance with the VDEQ-approved Materials Management Plan attached hereto as Exhibit D, which may be from time-to-time amended in accordance with the procedure for amendment set forth in the plan. Future modifications at the Property that could be reasonably understood to adversely affect or interfere with the integrity or protectiveness of the final remedy will be evaluated to identify and address those potential impacts or interferences. No removal, disturbance, or alteration shall occur to any corrective action components installed at the soil and groundwater restriction areas of the property, including, but not limited to groundwater monitoring wells, without VDEQ approval.

Compliance with the groundwater use restriction set forth in Section 3.a.2 above is required as long as the remedial goal for the concentration of each constituent in groundwater set forth in the chart in Section 4.0.B of the Statement of Basis is exceeded within the groundwater restriction area. Thereafter, with the Agency's approval and consent, this covenant may be amended to remove the groundwater use restriction.

b. Geographic coordinate lists defining the boundary of each activity and use restriction, depicted as a polygon.

Geographic coordinate lists defining the boundaries of the soil restriction areas are shown on the survey plat attached hereto as Exhibit B. Geographic coordinate lists defining the boundaries of the groundwater restriction area are shown on the survey plat attached hereto as Exhibit C.

4. Notice of Limitations in Future Conveyances.

Each instrument hereafter conveying any interest in the Property subject to this environmental covenant shall contain a notice of the activity and use limitations set forth in this environmental covenant and shall provide the recorded location of this environmental covenant.

5. Compliance and Use Reporting.

a. By the end of March, 2022, and the end of every fifth March thereafter, the then current owner of the Property shall submit, or cause to be submitted, to the Agency written

documentation stating whether or not the activity and use limitations in this environmental covenant are being observed. This documentation shall be signed by a responsible corporate official or qualified and certified professional engineer or geologist who has inspected and investigated compliance with this environmental covenant.

b. In addition, within one (1) month after any of the following events, the then current owner of the Property shall submit, or cause to be submitted, to the Agency written documentation describing the following: noncompliance with the activity and use limitations in this environmental covenant; transfer of the Property; changes in use of the Property; or filing of applications for building permits for the Property and any proposals for any site work, if such building or proposed site work will affect the contamination on the Property subject to this environmental covenant.

6. Access by the Holder(s) and the Agency.

In addition to any rights already possessed by the Holder and the Agency, this environmental covenant grants to the Holder and the Agency a right of reasonable access to the Property in connection with implementation, inspection, or enforcement of this environmental covenant.

7. Recording & Proof & Notification.

a. Within 90 days after the date of the Agency's approval of this environmental covenant, the Grantor shall record, or cause to be recorded, this environmental covenant with the Clerk of the Circuit Court for each locality wherein the Property is located. The Grantor shall likewise record, or cause to be recorded, any amendment, assignment, or termination of this UECA environmental covenant with the applicable Clerk(s) of the Circuit Court within 90 days of their execution. Any environmental covenant, amendment, assignment, or termination recorded outside of these periods shall be invalid and of no force and effect.

b. The Grantor shall send, or cause to be sent, a file-stamped copy of this environmental covenant, and of any amendment, assignment, or termination, to the Holder and the Agency within 60 days of recording. Within that time period, the Grantor also shall send, or cause to be sent, a file-stamped copy to the chief administrative officer of each locality in which the Property is located, any persons who are in possession of the Property who are not the Grantors, any signatories to this covenant not previously mentioned, and any other parties to whom notice is required pursuant to the Uniform Environmental Covenants Act.

8. Termination or Amendment.

This environmental covenant is perpetual and runs with the land unless terminated or amended (including assignment) in accordance with UECA.

9. Enforcement of Environmental Covenant.

This environmental covenant shall be enforced in accordance with § 10.1-1247 of the Code of Virginia.

ACKNOWLEDGMENTS:

GRANTOR

EAGLE REAL ESTATE, LLC
a Virginia limited liability company

By: [Signature]
Its: Manager

Commonwealth of Virginia)
City/County of Charlottesville)

On this 15th day of August, 2017, the above officer of Eagle Real Estate, LLC personally appeared before me and acknowledged that he is the person whose name is subscribed to this environmental covenant, and acknowledged that he freely executed the same for the purposes therein contained.

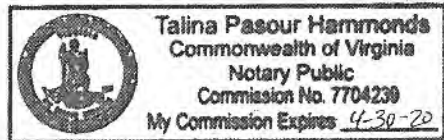
In witness whereof, I hereunto set my hand and official seal.

[Signature]
Notary Public

My commission expires: 4-30-2020

Registration No. 7704239

[Signatures continue on next page.]



GRANTEE and HOLDER

EAGLE REAL ESTATE, LLC
a Virginia limited liability company

By: [Signature]
Its: Manager

Commonwealth of Virginia)
(City/County of Charlottesville)

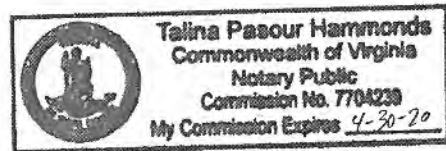
On this 15th day of August, 2017, the above officer of Eagle Real Estate, LLC personally appeared before me and acknowledged that he is the person whose name is subscribed to this environmental covenant, and acknowledged that he freely executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

[Signature]
Notary Public

My commission expires: 4-30-2020

Registration No. 7704239

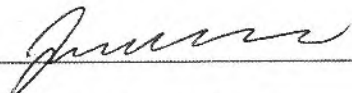


[Signatures continue on next page.]

AGENCY

APPROVED by the Department of Environmental Quality as required by § 10.1-1238 et seq. of the Code of Virginia.

Date: 8-23-17

By (signature): 

Name (printed): Justin Williams

Title: Land Protection and Revitalization Division
Director

EXHIBIT A

STATEMENT OF BASIS



VIRGINIA DEPARTMENT OF ENVIRONMENT QUALITY
DIVISION OF LAND PROTECTION AND REVITALIZATION
OFFICE OF REMEDIATION PROGRAMS

STATEMENT OF BASIS

ALLIED CONCRETE PRODUCTS, LLC
FORMERLY SOLITE LLC
EPA ID NO. VAD042755082, VAD098443443

GIANT RESOURCE RECOVERY - ARVONIA, INC.
EPA ID NO. VAR000518878

ARVONIA, VIRGINIA

JUNE 30, 2016

Table of Contents

1.0 INTRODUCTION..... 1
1.1. Facility Name.....1
1.2. Proposed Decision1
1.3. Public Participation1
2.0 FACILITY BACKGROUND..... 2
3.0 SUMMARY OF ENVIRONMENTAL HISTORY..... 4
4.0 CORRECTIVE ACTION OBJECTIVES 7
5.0 SUMMARY OF PROPOSED REMEDY 8
6.0 ENVIRONMENTAL INDICATORS..... 9
7.0 FINANCIAL ASSURANCE 10
8.0 PUBLIC PARTICIPATION 10

Attachments

- Figure 1a – SWMU and AOC Location Map 1
- Figure 1b – SWMU and AOC Location Map 2
- Figure 2a – Soil Restriction Areas 1-4
- Figure 2b – Soil Restriction Area 5
- Figure 3 – Groundwater Restriction Area and Monitoring Well Locations
- Administrative Record – Index of Documents for Statement of Basis

1.0 INTRODUCTION

1.1 Facility Name

The Virginia Department of Environmental Quality (VDEQ) has prepared this Statement of Basis (SB) for the Allied Concrete Products, LLC (formerly referred to as Solite LLC) facility and the Giant Resource Recovery - Arvon Inc. facility located at State Road 652, Arvon, Virginia 23004 (hereinafter referred to respectively as the Allied facility and the GRRR facility, and collectively as the Facility). The Facility was 917 acres at the time Corrective Action was initiated. In subsequent years parts of the property that were not within the operating area and were not subject to waste handling activities were sold. The current Allied facility consists of two parcels (Tax Map No. 30-32 and 30-33) totaling 223.477 acres owned by Allied Concrete Products, LLC. The current GRRR facility consists of one parcel (Tax Map No. 30-36) of 34.86 acres owned by Giant Resource Recovery, Inc. The Facility includes EPA ID Nos. VAD042755082, VAD098443443, and VAR000518878.

The Facility is subject to the Corrective Action (CA) Program under the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, 42 U.S.C. Sections 6901 to 6992k. Requirements of the Corrective Action Program have been made applicable to the Allied facility and to the GRRR facility pursuant to Hazardous Waste Management permits issued by VDEQ (each a Permit and collectively the Permits). The Corrective Action Program is designed to ensure that certain facilities subject to RCRA have investigated and cleaned up any releases of hazardous waste and waste constituents that have occurred at their property.

Information on the Corrective Action Program can be found by navigating <http://www.epa.gov/rcg3weind/correctiveaction.htm>.

VDEQ has prepared this SB in cooperation with the United States Environmental Protection Agency (EPA) and is providing the opportunity for public comment and review on its proposal and the associated permit modification.

1.2 Proposed Decision

This Statement of Basis explains VDEQ's proposed decision that further actions to remediate soil and groundwater, also known as corrective measures, are necessary to protect human health and the environment given current and reasonably anticipated future land use. VDEQ's proposed decision requires groundwater monitoring in certain areas of the Facility and the maintenance of certain property mechanisms known as Institutional Controls (ICs). ICs are generally non-engineered mechanisms such as administrative and/or legal controls that minimize or eliminate the potential for human exposure to contamination. The proposed corrective measures objectives are discussed in Section 4.0 and the proposed remedy and controls are discussed in Section 5.0 below.

This Statement of Basis summarizes information that can be found in greater detail in the work plans and reports reviewed by VDEQ and EPA, which can be found in the Administrative Record (AR). Attachments contain an index of documents for the AR and figures showing site location and the locations of Institutional Controls.

1.3 Public Participation

Interested persons are invited to comment on VDEQ's proposed decision by reviewing this SB and the documents contained in the AR. The information presented in this SB can be found in greater detail in the work plans and reports submitted by the Facility to VDEQ and EPA. To gain a more comprehensive understanding of the RCRA activities that have been conducted at the Facility, VDEQ encourages the public to review these documents, which are found in the AR. A copy of the AR is available for public review, in paper or electronic format, from the VDEQ contact person, the address and telephone number of which is provided in Section 8.0 below.

When making a determination regarding the proposed decision, VDEQ will consider all written comments received during the comment period (see Section 8.0), and requirements of the Virginia Hazardous Waste Management Regulations and 40 CFR Part 124. Each person who has submitted comments will receive a written response from VDEQ. VDEQ will then incorporate the applicable portions of the final remedy into the Permits after comments have been addressed.

2.0 FACILITY BACKGROUND

The following provides a detailed description of the operational and ownership history of the facility.

Solite Corporation owned and operated a lightweight aggregate manufacturing plant at the Arvon, Virginia Facility, commencing operations in 1951. Lightweight aggregate is used in the manufacture of lightweight masonry units, lightweight pre-cast elements, structural concrete, and other building materials. This lightweight aggregate, bearing the registered trade name Solite®, was used in numerous construction applications where its strength-to-weight ratio, insulating, fire resistant, weather resistant, and geotechnical properties were desired.

Solite® was manufactured in four rotary kilns located on the Facility. Solite® was produced by a carefully controlled rotary kiln process in which a specially prepared raw material (clay, shale, slate, and other materials) was fed into kilns fired at a minimum temperature of approximately 1,800° Fahrenheit (F) necessary to expand the raw material into lightweight aggregate. Initial operations utilized coal as a primary fuel source for the kilns. The kilns and associated raw material and finished product processing facilities were located on an approximately 917 acre tract of land situated in Buckingham County, Virginia, along both sides of State Road 652 in the Town of Arvon, Virginia. Raw materials were primarily obtained from the on-site slate quarry, the active portion of which is located south of State Road 652. To the north, the property borders the Slate River and then the James River east of its confluence with the Slate River. Buckingham Branch Rail Road bisects the former production area of the Facility.

Kilns 5, 6, 7, and 8 were constructed in 1951, 1952, 1961, and 1966 respectively. Kiln 5 ceased operations prior to 1991 and Kilns 6, 7, and 8 ceased operations by 2012. At the current time, all kilns and finish product processing facility equipment have been removed.

In the 1970s, the Facility began to use alternative liquid fuels, now classified as hazardous waste derived fuel, to provide the energy for lightweight aggregate production. The liquids, primarily spent solvents and other liquid hydrocarbons, were obtained from various generators including, but not limited to, furniture, automobiles, textile, pharmaceutical, and cosmetic manufacturers. Upon promulgation of the Resource Conservation and Recovery Act (RCRA), the fuel used at the facility became classified as hazardous because it was ignitable, which made the material suitable for use as fuel. Consequently, the tank farm portion of the Facility was transferred to Oldover Corporation, a subsidiary of Solite Corporation, and permitted as a hazardous waste storage facility under EPA ID No. VAD098443443.

At that time, the use of these flammable wastes as fuel (i.e. energy recovery) in lightweight aggregate kilns (i.e. industrial furnaces) was specifically exempted from RCRA permitting and therefore, the lightweight aggregate operations, owned and operated under Solite Corporation, were not permitted under RCRA at that time.

Upon promulgation of the RCRA Boiler and Industrial Furnace (BIF) regulations (August 21, 1991), the use of hazardous wastes as fuel in lightweight aggregate kilns was no longer exempt from RCRA permitting. Prior to permitting, the Facility operated under Interim Status under the BIF regulations and was later permitted under EPA ID No. VAD042755082 (under the company name Solite Corporation). The lightweight aggregate manufacturing operations later became subject to the Clean Air Act National Emission Standards for Hazardous Waste Combustors (HWC MACT regulations).

In 1999, Solite Corporation (including Oldover Corporation), was purchased by Giant Cement Holding, Inc. (GCHI). The tank farm facility's name was eventually changed to Giant Resource Recovery - Arvonius, Inc. and the lightweight aggregate facility continued to operate under the name "Solite Corporation."

In 2005, the real estate on which the lightweight aggregate facility operated (and permit VAD042755082) was purchased from Solite Corporation by Solite, LLC, a subsidiary of Southern Aggregates, LLC, a separately owned and operated Virginia company, unaffiliated with GCHI or the former Solite Corporation. Also in 2005, Solite, LLC purchased the real estate on which the hazardous waste tank farm operated. Giant Resource Recovery - Arvonius, Inc. continued to operate the hazardous waste tank farm under permit VAD098443443 from 2005 until 2010. At that point, Solite, LLC took over operation of the tank farm and became the permittee under permit VAD098443443.

The only portion of the Facility that Solite, LLC did not buy in 2005 contained the former lightweight aggregate kiln dust settling pond (SWMU #9). That parcel was conveyed by Solite Corporation to Giant Resource Recovery, Inc. in 2005. In 2010, a separate Final Hazardous Waste Management Permit for the Corrective Action of Solid Waste Management Unit #9 (VAR000518878) was issued to Giant Resource Recovery - Arvonius, Inc.

In August 30, 2011, Solite, LLC transferred the property it owned at the Facility to Allied Concrete Products, LLC (Allied), and the name of the permittee under the two operating permits at the Facility (VAD098443443 and VAD042755082) was changed to Allied. Allied thereafter operated the tank farm and kilns until closure was completed in 2012 (all RCRA permitted units have completed RCRA closure). The corrective action requirements under the lightweight aggregate kiln permit VAD042755082 were transferred to the hazardous waste tank farm storage permit in 2013 and permit VAD042755082 was then allowed to expire. On June 30, 2015, Allied transferred the property it owned at the Facility to Eagle Real Estate, LLC, a related entity. Permit VAD098443443 issued to Allied and Permit VAR000518878 issued to GRRA remain in effect for the completion of corrective action.

3.0 SUMMARY OF ENVIRONMENTAL HISTORY

Based on a review of files maintained by the DEQ and EPA Region 3, a number of solid waste management units (SWMUs) and an Area of Concern (AOC) were identified at the Facility. Site layout maps are included as Figures 1a and 1b showing the location of each SWMU and AOC. The following table lists each SWMU and AOC.

SWMU and AOC Identification Table

Identification	SWMU/AOC Name
S-1	Rotary Kiln No. 5
S-2	Rotary Kiln No. 6
S-3	Rotary Kiln No. 7
S-4	Rotary Kiln No. 8
S-5	Air Pollution Control Baghouse No. 7
S-6	Air Pollution Control Baghouse No. 8
S-7	Former APC Wet Scrubber
S-8	Former APC Wet Scrubber
S-9	Former Surface Impoundment – Scrubber Water
S-10	Used Oil Tank
S-11	Used Oil Tank Collection Cart
S-12	Parts Washer
S-13	Waste Dumpsters
S-14a,b,c	Septic Tanks and Drain Fields
S-15	Scrap Metal Area 1
S-16	Scrap Metal Area 2
S-17	Scrap Metal Area 3
S-18	Scrap Metal Area 4
S-19	Scrap Metal Area 5
S-20	Former Open Dumping Area
S-21	Former Landfill
S-22	Former Used Oil Tank
S-23	Former Brick Accumulation Area

S-24	Former Brick Accumulation Area
S-25	Permitted HW Tank Farm
S-26	Former Truck Loading/Unloading Area
S-27	Former Truck Loading/Unloading Area
S-28	Waste Transfer Pipelines
S-29	Non-Hazardous Waste Oil Tanks
S-30	Strainer Box
S-31	Underground Sump and Associated Piping
S-32	Heavy Oil Transfer Line
S-33	Former Underground Waste Transfer Pipeline
S-34	Laboratory Waste Collection Area
S-35	Runoff Collection Settling Pond
A-1	Finished Lightweight Aggregate Piles

Based on operating history and records, it was determined that no further investigation or action was necessary at SWMUs 12 through 21, 23, 24, 34, 35, and AOC A-1 in order to meet the goals of the Corrective Action program. Various site investigations focused on the remaining SWMUs and combined them into four areas. The four areas include Group K – Kilns, Group B – Baghouses, Group T – Tank Farm, and Group U - Used Oil Area. In addition, groundwater was characterized site-wide during the environmental investigations. Below is a summary of the Facility's environmental investigations and activities.

RCRA Closure Activities

Allied Concrete Products, LLC (Allied) initiated RCRA Closure in accordance with the requirements of both Permits. Notification of intent to initiate final closure activities was completed on January 4, 2012 at which time final closure at both facilities commenced. Final Closure Reports for the Allied and GRRA facilities were submitted to the VDEQ on August 8, 2012 and December 13, 2012 respectively. VDEQ approved closure for the entire Facility (EPA I.D. Nos. VAD098443443 and VAD042755082) on December 12, 2012 and February 26, 2013, respectively.

RCRA Facility Investigation Activities

The Facility's Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) were identified in the National Corrective Action Prioritization System (NCAPS) Assessment report, dated April 17, 1997, which was prepared by the VDEQ in conjunction with the EPA Region 3. Additional SWMU and AOC identification was in the EPA Environmental Indicator Inspection Report dated July 21, 1999 using various numbering and nomenclature. In both documents, SWMUs were identified and migration pathways (groundwater, surface water, air, and soil) were evaluated for potential or actual contamination to determine the environmental priority ranking for the Facility.

In a preliminary sampling effort conducted on September 1 and 2 of 2004, the VDEQ collected 44 soil samples (including background and field duplicates) and four groundwater samples (QA/QC samples). An evaluation of the VDEQ collected data by Solite Corporation was submitted to VDEQ in a letter dated November 3, 2005. Subsequently, Solite, LLC (an independent company) performed site wide due diligence activities at the Solite Corporation facility associated with a potential property acquisition. Solite, LLC contracted with an environmental consultant (ERM) to perform a soil sampling investigation at the Facility. The Soil Sampling Investigation activities were performed in November 2004 and consisted of the collection of six soil and eight groundwater samples. A second soil investigation was completed at the Facility in June of 2010 when five additional soil samples were collected.

A conference call was held on June 17, 2010 and a subsequent letter was submitted recommending re-collection of two soil samples in the Tank Farm area to confirm the inconsistent analytical results for arsenic and vanadium as well as sampling of four groundwater wells. Approval for the sampling was provided by VDEQ on September 27, 2010 and the report of the results was submitted to VDEQ on February 9, 2011. The sample collection activities included the collection of five additional background samples and the development of 95% UCL background soil levels for metals. The soil results indicated that the original inconsistent results could not be duplicated. The report recommended further sampling of groundwater.

Further soil sampling for thallium detections were proposed in a December 2013 Risk Evaluation Sampling Plan that was approved by VDEQ in a letter on January 7, 2014. The soil samples were collected on January 28, 2014 and the results of previous sampling events were presented in the 2014 Comprehensive Site Evaluation Report. The Report was approved by VDEQ in a letter dated December 3, 2015. The results are summarized below:

Soil Results

The 2014 Comprehensive Site Evaluation Report included a total of 63 soil samples that were collected in 2004, 2010 and 2014. The report included screening of the results using both Industrial and Residential RSLs for direct contact. A site conceptual model and risk assessment was included in the report. The results of the evaluation are as follows:

- No Volatile Organic Compounds (VOCs); Semi-Volatile Organic Compounds (SVOCs); or dioxins were detected in the soil samples above residential RSLs (unrestricted use).
- The following metals had at least one detection in exceedance of residential RSLs but below industrial RSLs: aluminum; antimony; arsenic; cadmium; cobalt; copper; iron; lead; manganese; selenium; and vanadium.
- Fifteen sample locations had at least one exceedance of the industrial screening criteria (industrial RSLs) for antimony; arsenic; cobalt; iron; manganese; and thallium. These samples were grouped into four primary areas which were individually evaluated in a risk assessment using an industrial use scenario. The results for site soils at the four areas indicated the carcinogenic risk is within EPA Region 3's acceptable cumulative risk range of 1×10^{-6} to 1×10^{-4} , and the

Hazard Index is below the acceptable level of 1 for non-carcinogens. Therefore, the results of the risk assessment showed the cumulative risk and hazard index are within the acceptable range/limit for an industrial use scenario. (Note – one of the four soil areas was subsequently split into two separate areas which resulted in there being a total of five soil areas identified below.)

Groundwater Results

Groundwater was investigated through a monitoring well network consisting of nine monitoring and two background wells. The wells were installed in 1989 and 2004. Two of the wells were replaced in 2012. A total of 26 groundwater samples have been collected from 11 wells to date. The results of the groundwater evaluation are as follows:

- EPA and VDEQ utilize drinking water standards, namely MCLs, or tap water RSLs for constituents that do not have an MCL, for groundwater data screening purposes. Two monitoring wells contained select metals which exceeded the groundwater screening criteria:
 - MW-7 (arsenic, cobalt, and manganese); and
 - MW-8R (arsenic and manganese).
- No additional exceedances of RCRA metals, SVOCs or VOCs above applicable screening standards have been reported.
- Six monitoring wells were properly abandoned in 2015. Three monitoring wells (MW-1, MW-7, MW-8R) and two background wells (BW-1 and BW-2) remain at the Facility.
- A plan for groundwater monitoring was approved by VDEQ on March 24, 2015.

4.0 CORRECTIVE ACTION OBJECTIVES

A. Soils

DEQ has determined that industrial risk based levels are protective of human health and the environment for individual contaminants at this Facility provided that the five restricted soil areas of the Facility are not used for residential purposes. The designated soil restriction areas at the Allied facility are shown on Figure 2a (restricted soil areas #1 - #4), and the designated soil restriction area at the GRRR facility is shown on Figure 2b (restricted soil area #5). Therefore, DEQ's Corrective Action Objective for Facility soils is to control exposure to the hazardous constituents remaining in soils by requiring compliance with and maintenance of land use restrictions at the restricted areas. In addition, an agency approved Materials Management Plan will be required for any soil excavation and/or management in these areas of the Facility. The requirement for a Materials Management Plan and the land use restrictions will be imposed in the Permits or in future UECA covenants.

B. Groundwater

DEQ has determined that drinking water standards, namely MCLs or tap water RSLs for constituents that do not have an MCL, for contaminants are protective of human health and the environment for individual contaminants at this Facility. The Facility may elect to establish site-specific background concentrations in accordance with appropriate procedures, and utilize the site-specific background concentrations to compare with groundwater concentrations. Alternatively, DEQ may allow comparison to other risk-based criteria it approves. DEQ's Corrective Action Objectives for Facility groundwater are the following:

1. To control exposure to the hazardous constituents in the groundwater by requiring the compliance with and maintenance of a groundwater use restriction at the groundwater restricted area of the Facility as long as the Remedial Goal for the each constituent set forth on the chart below is exceeded. The groundwater restriction area is wholly within the Allied facility and is shown on Figure 3. This restriction will be imposed by the Permit applicable to the Allied facility and in a future UECA covenant applicable to the Allied facility; and
2. To monitor groundwater within the groundwater restriction area pursuant to the approved groundwater monitoring plan until such time as it can be shown that the concentrations of hazardous constituents set forth on the chart below demonstrate a generally stable or decreasing trend.

Constituent	Remedial Goal*	Basis
Arsenic	Highest of 10 ug/L or background	EPA Drinking Water MCL
Cobalt	Highest of 6 ug/L or background	EPA Tap Water RSL
Manganese	Highest of 430 ug/L or background	EPA Tap Water RSL

ug/L = micrograms per liter

* The remedial goal is achieved when the concentration does not exceed the highest of the criteria referenced. The Allied facility may elect to establish site-specific background concentrations in accordance with established procedures, and utilize the site-specific background concentrations as the remedial goal upon approval by VDEQ. Alternatively, VDEQ may approve other risk-based criteria as the remedial goal.

5.0 SUMMARY OF PROPOSED REMEDY

A. Summary

Under this proposed remedy, DEQ is requiring the following actions:

1. The Allied facility shall continue to monitor groundwater pursuant to the approved groundwater monitoring plan, and any revisions thereto, until such time

as such time as it can be shown that the concentrations of hazardous constituents set forth on the chart above demonstrate a generally stable or decreasing trend.

2. Maintain compliance with land use restrictions and institutional controls. Institutional controls will be imposed by the Permits or future UECA covenants. Institutional controls include:

- A. The soils restriction areas of the Facility shall not be used for residential purposes or for children's (under the age of 16) daycare facilities, schools, or playground purposes.
- B. Groundwater beneath the designated groundwater restriction area of the Allied facility shall not be used for any purposes except for environmental monitoring and testing, or for non-contact industrial use as may be approved by VDEQ. Any new groundwater wells installed in the designated groundwater restriction area must be approved VDEQ.
- C. Excavation and/or management of soil in the soil restriction areas shall be conducted in accordance with a VDEQ-approved Materials Management Plan. Future modifications at the Facility that could be reasonably understood to adversely affect or interfere with the integrity or protectiveness of the final remedy will be evaluated to identify and address those potential impacts or interferences. No removal, disturbance, or alteration shall occur to any corrective action components installed at the soil and groundwater restriction areas of the property, including, but not limited to groundwater monitoring wells, without VDEQ approval.

Once the remedial goals set forth in the chart above are achieved for groundwater within the groundwater restriction area, the then current owner of the Allied facility may seek to modify the UECA covenant applicable to that facility to remove the groundwater use restriction.

B. Implementation

VDEQ proposes to implement the remedy through the Hazardous Waste Management Permits for Site-Wide Corrective Action and UECA covenants. Therefore, DEQ does not anticipate any regulatory constraints in implementing its remedy.

C. Reporting Requirements

Compliance with the institutional controls and groundwater monitoring requirements shall be evaluated, certified and reported to VDEQ in accordance with reporting requirements in the Permits and in future UECA covenants.

6.0 ENVIRONMENTAL INDICATORS

Under the Government Performance and Results Act ("GPRA"), EPA has set national goals to address RCRA corrective action facilities. Under GPRA, EPA evaluates two key environmental clean-up indicators for each facility: (1) Current Human Exposures Under

Control and (2) Migration of Contaminated Groundwater Under Control. The Facility met the Human Health indicator on February 14, 2002 (for EPA ID No. VAD098443443) and on September 26, 2005 (for EPA ID No. VAD042755082). The Facility met the Groundwater indicator on September 27, 2007 (for both VAD098443443 and VAD042755082).

7.0 FINANCIAL ASSURANCE

Since the final remedy for the Facility is limited to institutional controls and periodic groundwater monitoring, financial assurance for corrective action is not warranted or required for the Facility.

8.0 PUBLIC PARTICIPATION

Before DEQ makes a final decision on its proposed final remedy for the Facility, the public may participate in the decision selection process by reviewing this SB and documents contained in the Administrative Record for the Facility. The Administrative Record contains all information considered by DEQ in reaching this proposed decision. Interested parties are encouraged to review the Administrative Record and comment on DEQ's proposed decision. For additional information regarding the proposed remedy, please contact Mr. Ryan Kelly at (804) 698-4045 or ryan.kelly@deq.virginia.gov.

The public comment period will last sixty (60) calendar days from the date the notice is published in a local newspaper. Comments may be submitted by mail, fax, or e-mail to Mr. Russ McAvoy at the address listed below.

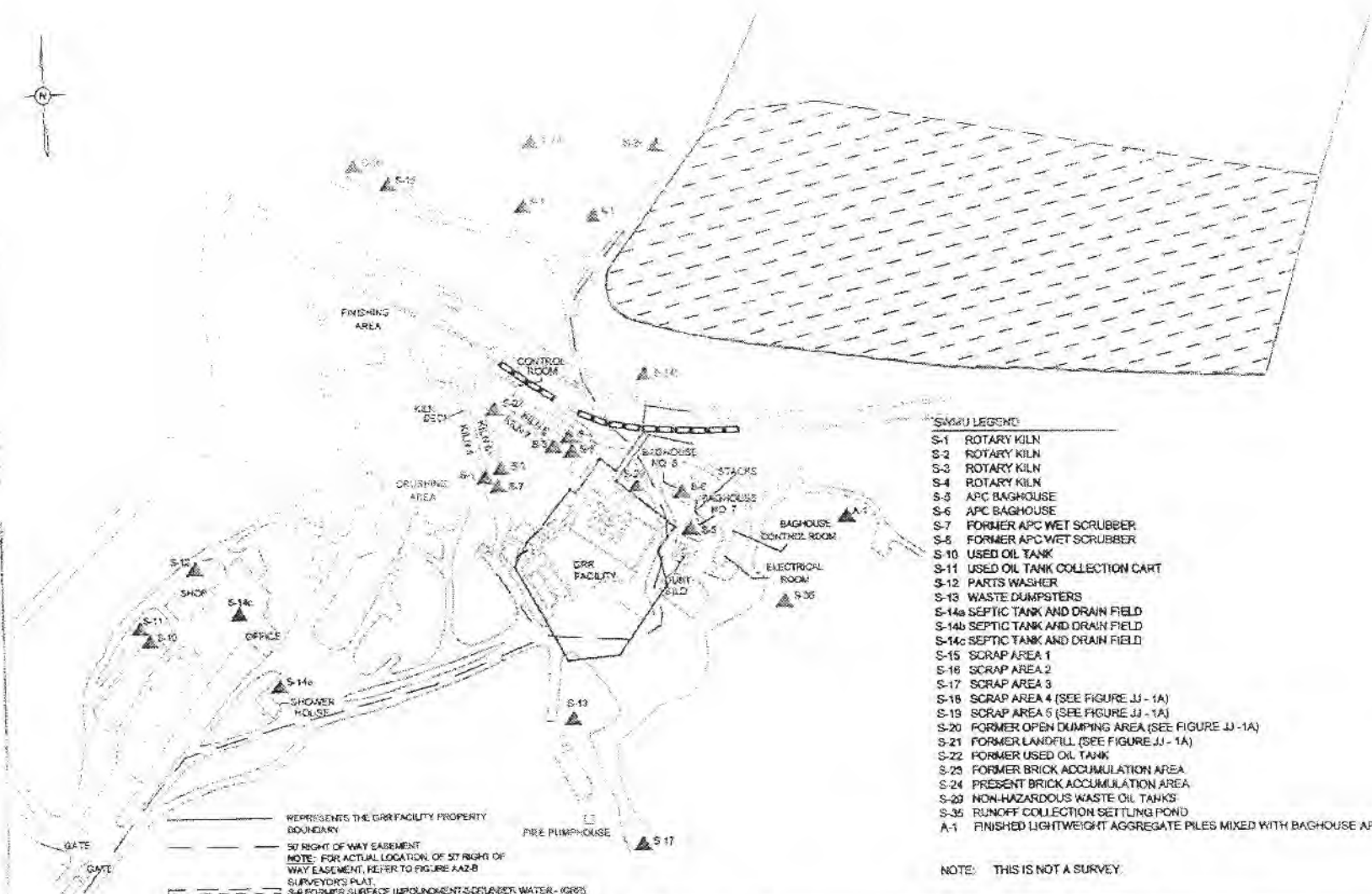
Virginia Department of Environmental Quality
629 East Main Street
P.O. Box 1105
Richmond, VA 23218
Contact: Mr. Russ McAvoy
Phone: (804) 698 - 4194
Email: russell.mcavoy@deq.virginia.gov

DEQ will make a final decision after considering all comments, consistent with the applicable RCRA requirements and regulations. If the decision is substantially unchanged from the one in this Statement of Basis, DEQ will issue a final decision and inform all persons who submitted written comments or requested notice of DEQ's final determination. If the final decision is significantly different from the one proposed, DEQ will issue a public notice explaining the new decision and will reopen the comment period.

Attachments

[Faint, illegible handwritten text]

Figure 1a – SWMU and AOC Location Map 1



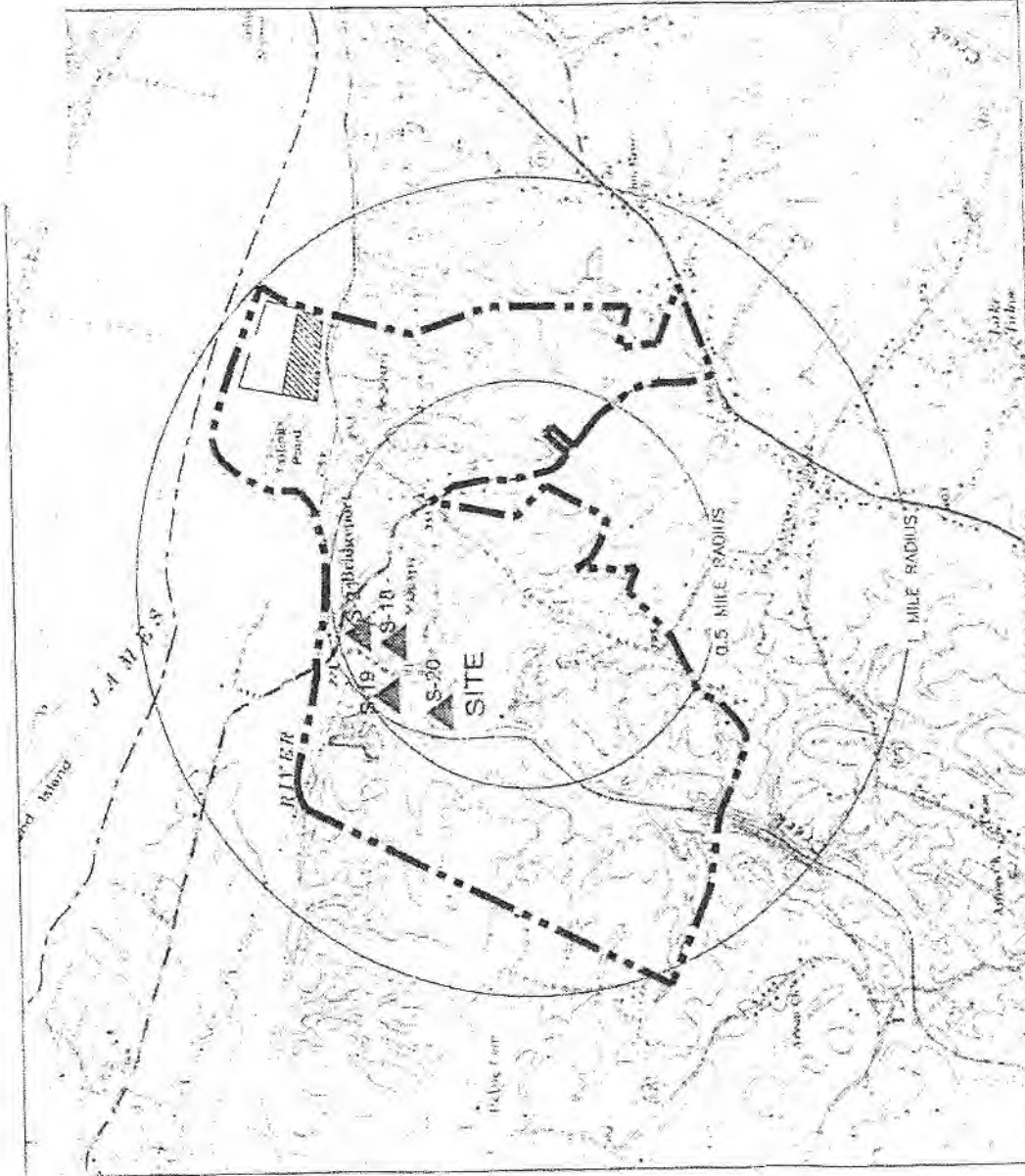
_____ REPRESENTS THE GAR FACILITY PROPERTY BOUNDARY
 _____ 50' RIGHT OF WAY EASEMENT
 NOTE: FOR ACTUAL LOCATION OF 50' RIGHT OF WAY EASEMENT, REFER TO FIGURE AAZ-B SURVEYOR'S PLAN.
 - - - - - 3-4 FORMER SURFACE IMPOUNDMENT'S DELAWARE WATER - (GRS)
 NOTE: CLAYT RESOURCE RECOVERY (CRR) EXCLUDED PROPERTY SWMU'S APPROX. 14.76 ACRES OF THE EXCLUDED PARCEL WHICH IS APPROX. 34.86 ACRES
 _____ REPRESENTS THE APPROX. 34.86 ACRE PROPERTY BOUNDARY OF THE PARCEL OWNED BY CRR
 NOTE: SEE ROUTE CORPORATION SURVEY DATED JAN. 11, 2005 BY ENGINEERING DESIGN ASSOCIATES FOR COMPLETE PROPERTY BOUNDARY OF SWMU'S PARCEL.

- SWMU LEGEND**
- S-1 ROTARY KILN
 - S-2 ROTARY KILN
 - S-3 ROTARY KILN
 - S-4 ROTARY KILN
 - S-5 APC BAGOUSE
 - S-6 APC BAGOUSE
 - S-7 FORMER APC WET SCRUBBER
 - S-8 FORMER APC WET SCRUBBER
 - S-10 USED OIL TANK
 - S-11 USED OIL TANK COLLECTION CART
 - S-12 PARTS WASHER
 - S-13 WASTE DUMPSTERS
 - S-14a SEPTIC TANK AND DRAIN FIELD
 - S-14b SEPTIC TANK AND DRAIN FIELD
 - S-14c SEPTIC TANK AND DRAIN FIELD
 - S-15 SCRAP AREA 1
 - S-16 SCRAP AREA 2
 - S-17 SCRAP AREA 3
 - S-18 SCRAP AREA 4 (SEE FIGURE JJ - 1A)
 - S-19 SCRAP AREA 5 (SEE FIGURE JJ - 1A)
 - S-20 FORMER OPEN DUMPING AREA (SEE FIGURE JJ - 1A)
 - S-21 FORMER LANDFILL (SEE FIGURE JJ - 1A)
 - S-22 FORMER USED OIL TANK
 - S-23 FORMER BRICK ACCUMULATION AREA
 - S-24 PRESENT BRICK ACCUMULATION AREA
 - S-25 NON-HAZARDOUS WASTE OIL TANKS
 - S-26 RUNOFF COLLECTION SETTLING POND
 - A-1 FINISHED LIGHTWEIGHT AGGREGATE PILES MIXED WITH BAGOUSE APC DUST

NOTE: THIS IS NOT A SURVEY.

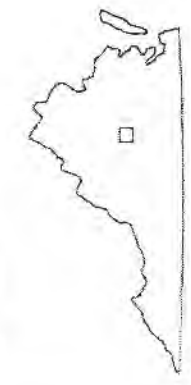
SITE PLAN - SWMUs, HWKUs, & AOCs 8011 E. I-66 & BOYD AVE. VIRGINIA (EPA ID NO. VA10492755002)	SCALE: 1" = 50'
---	-----------------

Figure 1b – SWMU and AOC Location Map 2



SOURCE: USGS 7.5 MINUTE SERIES
 TOPOGRAPHIC QUADRANGLE 1987
 ARVONIA, VIRGINIA
 CONTOUR INTERVAL = 10'

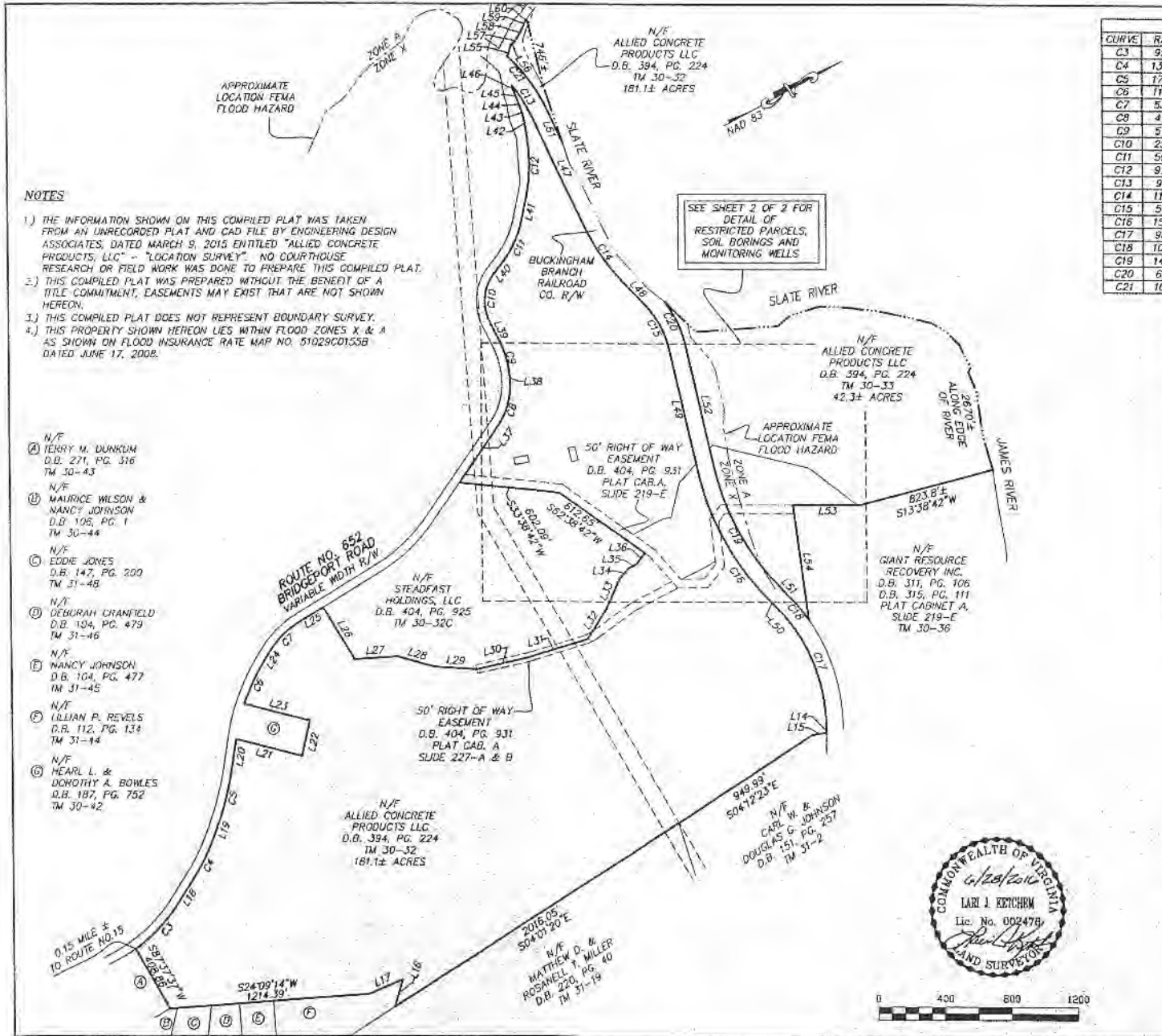
DATE: 07/20/05
 BY: MEI
 CHECKED BY: W.C.H.
 APPROXIMATE SITE BOUNDARY
 REPRESENTS THE 34.86 ACRES PROPERTY
 BOUNDARY OF THE PARCEL OWNED BY CSR



QUADRANGLE LOCATION

DRAFTED BY: MEI	SITE PLAN - SMWUS		
CHECKED BY: W.C.H.	SOLITE CORPORATION ARVONIA, VIRGINIA EPA ID No. VAD042755082		
NORTH	SCALE IN FEET 0 2000	DATE 07/20/05	FIGURE JJ-2
NOTE: THIS IS NOT A SURVEY.			

Figure 2a – Soil Restriction Areas 1-4



NOTES

- 1.) THE INFORMATION SHOWN ON THIS COMPILED PLAT WAS TAKEN FROM AN UNRECORDED PLAT AND CAD FILE BY ENGINEERING DESIGN ASSOCIATES, DATED MARCH 9, 2015 ENTITLED "ALLIED CONCRETE PRODUCTS, LLC" - "LOCATION SURVEY". NO COURTHOUSE RESEARCH OR FIELD WORK WAS DONE TO PREPARE THIS COMPILED PLAT.
- 2.) THIS COMPILED PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT, EASEMENTS MAY EXIST THAT ARE NOT SHOWN HEREON.
- 3.) THIS COMPILED PLAT DOES NOT REPRESENT BOUNDARY SURVEY.
- 4.) THIS PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONES X & A AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 51029C0153B DATED JUNE 17, 2008.

- N/F
A) FERRY M. DUNKUM
D.B. 271, PG. 316
TM 30-43
- N/F
B) MAURICE WILSON & NANCY JOHNSON
D.B. 106, PG. 1
TM 30-44
- N/F
C) EDDIE JONES
D.B. 147, PG. 200
TM 31-48
- N/F
D) DEBORAH CRANFIELD
D.B. 194, PG. 479
TM 31-46
- N/F
E) NANCY JOHNSON
D.B. 104, PG. 477
TM 31-45
- N/F
F) ULIAN P. REVELS
D.B. 112, PG. 134
TM 31-14
- N/F
G) HEARL L. & DOROTHY A. BOWLES
D.B. 187, PG. 752
TM 30-42

SEE SHEET 2 OF 2 FOR
DETAIL OF
RESTRICTED PARCELS,
SOIL BORINGS AND
MONITORING WELLS

CURVE TABLE - OVERALL

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C3	952.10'	21°55'21"	364.29'	184.40'	N16°38'13"W	362.07'
C4	1346.70'	14°13'55"	334.51'	168.12'	N34°42'50"W	333.65'
C5	1754.17'	10°34'23"	323.71'	162.31'	N47°06'59"W	323.25'
C6	1175.81'	14°04'12"	286.74'	145.10'	N35°12'53"W	288.02'
C7	535.06'	25°09'48"	234.99'	119.42'	N15°35'53"W	233.11'
C8	414.28'	39°57'05"	288.67'	150.59'	N46°11'22"W	283.05'
C9	516.99'	23°19'59"	211.35'	107.16'	N77°49'54"W	209.90'
C10	252.00'	66°22'54"	291.96'	164.85'	N56°18'27"W	275.90'
C11	597.96'	26°45'00"	279.17'	142.18'	N36°29'32"W	276.64'
C12	979.93'	23°34'06"	403.09'	204.44'	N61°39'05"W	400.25'
C13	910.41'	13°54'03"	220.88'	110.98'	N85°23'30"E	220.34'
C14	1171.64'	19°13'43"	393.20'	198.42'	N82°43'39"E	391.36'
C15	513.39'	31°42'31"	284.12'	145.80'	N88°58'03"E	280.51'
C16	1541.46'	30°44'30"	827.06'	423.74'	N89°27'04"E	817.17'
C17	982.82'	44°15'31"	759.19'	399.67'	S63°47'25"E	740.45'
C18	1082.82'	8°43'17"	164.82'	82.52'	S75°26'28"W	164.66'
C19	1441.46'	30°44'30"	733.40'	396.25'	S89°27'04"W	764.16'
C20	613.39'		275.9±			
C21	1010.41'	22°06'12"	389.79'	197.35'	S81°17'26"W	367.58'

LINE TABLE - OVERALL

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L14	S67°39'40"E	22.90'	L38	N66°09'58"W	16.51'
L15	S18°24'45"W	86.88'	L39	N89°29'54"W	130.66'
L16	N45°31'04"W	185.52'	L40	N23°07'02"W	80.48'
L17	S05°26'40"W	223.07'	L41	N49°52'02"W	131.07'
L18	N27°35'53"W	164.26'	L42	N71°58'47"W	77.30'
L19	N41°49'48"W	43.74'	L43	N79°26'02"W	51.53'
L20	N52°24'11"W	170.88'	L44	N84°10'08"W	52.09'
L21	N41°42'14"E	416.10'	L45	N83°15'11"W	48.04'
L22	N48°37'55"W	208.65'	L46	N80°52'02"W	45.62'
L23	S41°48'13"W	411.57'	L47	S87°39'29"E	709.86'
L24	N28°10'47"W	59.27'	L48	N73°06'48"E	196.32'
L25	N03°00'59"W	180.30'	L49	S75°10'41"E	236.41'
L26	N86°59'01"E	355.92'	L50	N74°04'49"E	119.97'
L27	N24°36'03"E	259.08'	L51	S74°04'49"W	119.97'
L28	N42°47'49"E	227.82'	L52	N75°10'41"W	236.41'
L29	N10°44'49"E	358.59'	L53	S28°08'42"W	400.00'
L30	N15°48'16"E	330.68'	L54	S89°21'16"E	679.82'
L31	N10°44'49"E	358.59'	L55	N46°37'14"W	67.68'
L32	N29°12'49"W	209.96'	L56	N07°54'49"W	26.00'
L33	N17°39'22"W	200.00'	L57	N25°35'57"W	22.10'
L34	N19°15'18"W	84.24'	L58	N31°26'15"W	86.13'
L35	N02°01'42"E	53.00'	L59	N43°30'08"W	25.30'
L36	N27°21'18"W	79.68'	L60	N25°04'02"W	20±
L37	N25°12'49"W	397.18'	L61	N87°39'29"W	214±

FIGURE 1
COMPILED PLAT SHOWING
TAX PARCELS TM 30-32 AND TM 30-33
LYING ON THE NORTH AND SOUTH LINES
OF THE BUCKINGHAM BRANCH RAILROAD
CO. R/W AND THE EAST LINE OF ROUTE
NO. 652, BRIDGEPORT ROAD

MARSHALL DISTRICT, BUCKINGHAM COUNTY, VIRGINIA
DATE: JUNE 28, 2016
DRAWN BY: LJK
SCALE: 1" = 400'
CHECKED BY: LJK

 **KOONTZ-BRYANT, P.C.**
Site Development Solutions
1703 N. PARKHILL ROAD
RICHMOND, VIRGINIA 23229
(804) 740-9200 (804) 740-7338 Fax
kbpc@koontzbryant.com



BOOK 445 PAGE 028

LINE TABLE - PARCEL 1

LINE	BEARING	DISTANCE
L1	N19°26'36"E	83.90'
L2	S70°33'25"E	40.00'
L3	S19°26'35"W	83.90'
L4	N70°33'25"W	40.00'

LINE TABLE - PARCEL 2

LINE	BEARING	DISTANCE
L5	N14°53'37"E	40.00'
L6	S75°44'23"E	82.94'
L7	S14°15'37"W	40.00'
L8	N75°44'23"W	82.94'

CURVE TABLE - PARCEL 3

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C1	1541.46'	9°48'27"	263.86'	132.25'	S80°04'54"E	263.54'

CURVE TABLE - PARCEL 4

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C2	1441.46'	8°44'43"	220.01'	110.22'	N79°33'02"W	219.80'

STATE GRID COORDINATES - PARCEL 1
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
1	3780915.178	11532670.362
2	3780994.294	11532898.291
3	3780980.879	11532936.009
4	3780901.863	11532908.081

STATE GRID COORDINATES - PARCEL 2
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
5	3781229.386	11532971.824
6	3781268.153	11532981.677
7	3781247.724	11533062.058
8	3781208.956	11533052.205

POINT LAT. AND LONG. PARCEL 3

POINT	LAT.	LONG.
9	37.7082981	-78.3254561
10	37.7082608	-78.3252797
11	37.7091348	-78.3243826
12	37.7087049	-78.3243494
13	37.7088298	-78.3235563
14	37.7081288	-78.3235384
15	37.7091894	-78.3235602
16	37.7080386	-78.3243358
17	37.7078193	-78.3248228
18	37.7083966	-78.3248088
19	37.7085199	-78.3247548
20	37.7089108	-78.3252885

LINE TABLE - PARCEL 3

LINE	BEARING	DISTANCE
L9	S75°10'41"E	52.82'
L10	S23°51'18"E	23.84'
L11	N19°06'48"E	47.52'

POINT LAT. AND LONG. PARCEL 4

POINT	LAT.	LONG.
21	37.7096110	-78.3255815
22	37.7096815	-78.3256220
23	37.7109049	-78.3242644
24	37.7113118	-78.3231611
25	37.7094155	-78.3244437
26	37.7095261	-78.3251907

LINE TABLE - PARCEL 4

LINE	BEARING	DISTANCE
L12	N75°10'41"W	120.02'
L13	N19°04'42"W	27.12'

POINT LAT. AND LONG. PARCEL 1

POINT	LAT.	LONG.
1	37.7068974	-78.3273271
2	37.7069146	-78.3272301
3	37.7068776	-78.3270998
4	37.7068607	-78.3271968

POINT LAT. AND LONG. PARCEL 2

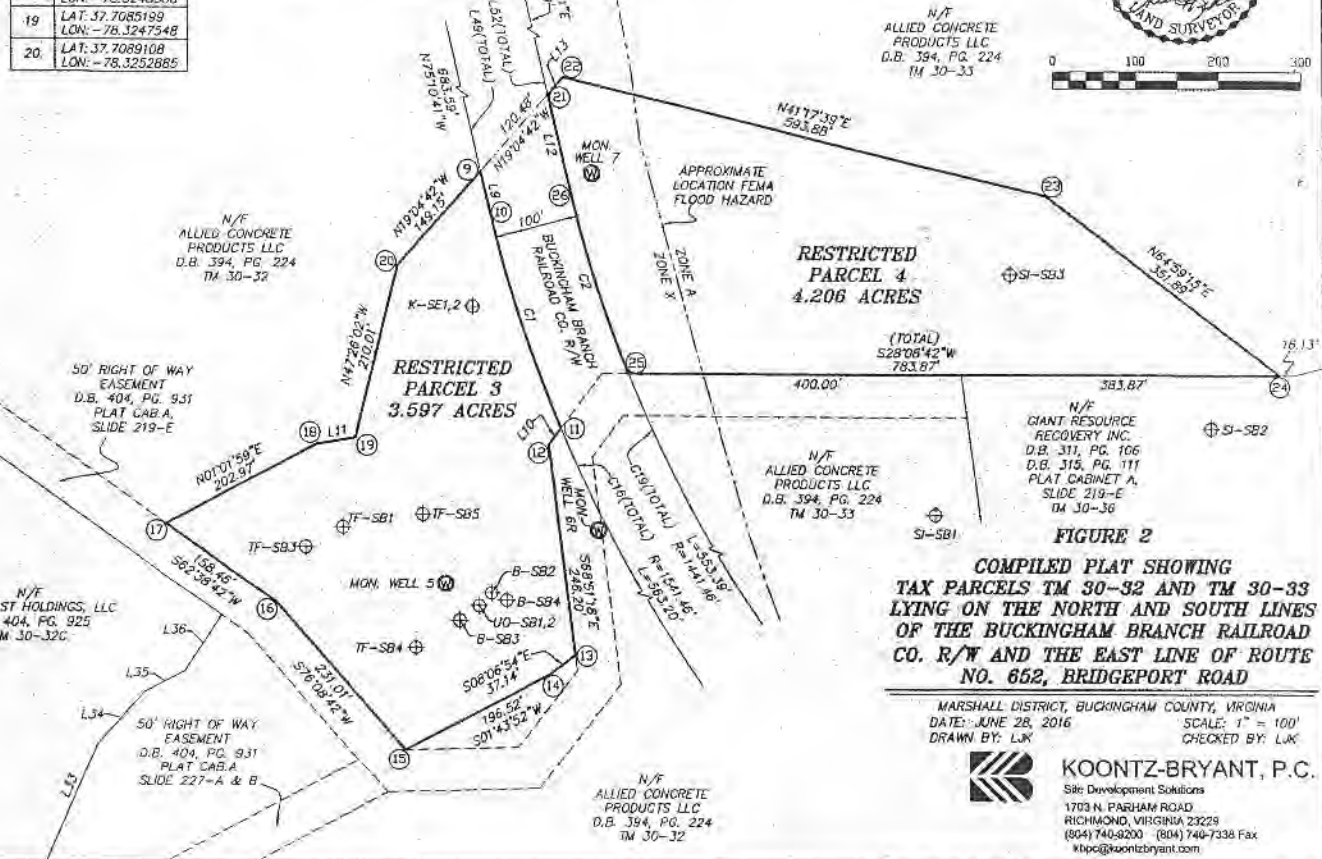
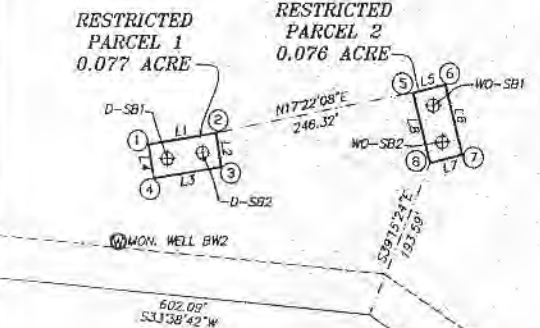
POINT	LAT.	LONG.
5	37.7075598	-78.3269744
6	37.7076662	-78.3268401
7	37.7076097	-78.3266624
8	37.7075033	-78.3266967

STATE GRID COORDINATES - PARCEL 3
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
9	3781863.165	11533409.874
10	3781849.653	11533460.936
11	3781804.260	11533720.533
12	3781782.457	11533730.175
13	3781693.646	11533959.797
14	3781656.889	11533995.040
15	3781460.447	11533998.163
16	3781405.128	11533734.813
17	3781332.317	11533594.078
18	3781535.255	11533587.735
19	3781580.154	11533613.294
20	3781722.211	11533458.624

STATE GRID COORDINATES - PARCEL 4
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
21	3781977.028	11533370.494
22	3782002.658	11533361.629
23	3782448.658	11533753.546
24	3782597.641	11534072.430
25	3781906.460	11533702.676
26	3781946.325	11533486.518



STATE GRID COORDINATES
SQL BORINGS & MONITORING WELLS
NAD 83, VA SOUTH ZONE

DESCRIPTION	NORTH	EAST
D-SB1	3780927.580	11532895.879
D-SB2	3780968.777	11532910.493
WO-SB1	3781243.843	11532986.134
WO-SB2	3781233.267	11533037.748
TF-SB1	3781517.544	11533697.432
TF-SB3	3781467.171	11533696.523
TF-SB4	3781527.877	11533861.095
TF-SB5	3781608.414	11533729.268
UO-SB1,2	3781618.835	11533854.859
B-SB2	3781639.186	11533848.576
B-SB3	3781589.891	11533858.736
B-SB4	3781651.291	11533864.825
K-SE1,2	3781778.772	11533544.874
SI-SB1	3782154.315	11534019.307
SI-SB2	3782494.743	11534088.388
SI-SB3	3782367.106	11533814.836
MON. WELL BW2	3780827.906	11532952.404
MON. WELL 5	3781593.478	11533872.577
MON. WELL 6R	3781787.736	11533843.370
MON. WELL 7	3781980.370	11533475.150

RESTRICTED PARCEL 4
4.206 ACRES

RESTRICTED PARCEL 3
3.597 ACRES

FIGURE 2
COMPILED PLAT SHOWING
TAX PARCELS TM 30-32 AND TM 30-33
LYING ON THE NORTH AND SOUTH LINES
OF THE BUCKINGHAM BRANCH RAILROAD
CO. R/W AND THE EAST LINE OF ROUTE
NO. 652, BRIDGEPORT ROAD

MARSHALL DISTRICT, BUCKINGHAM COUNTY, VIRGINIA
DATE: JUNE 28, 2016 SCALE: 1" = 100'
DRAWN BY: LJK CHECKED BY: LJK

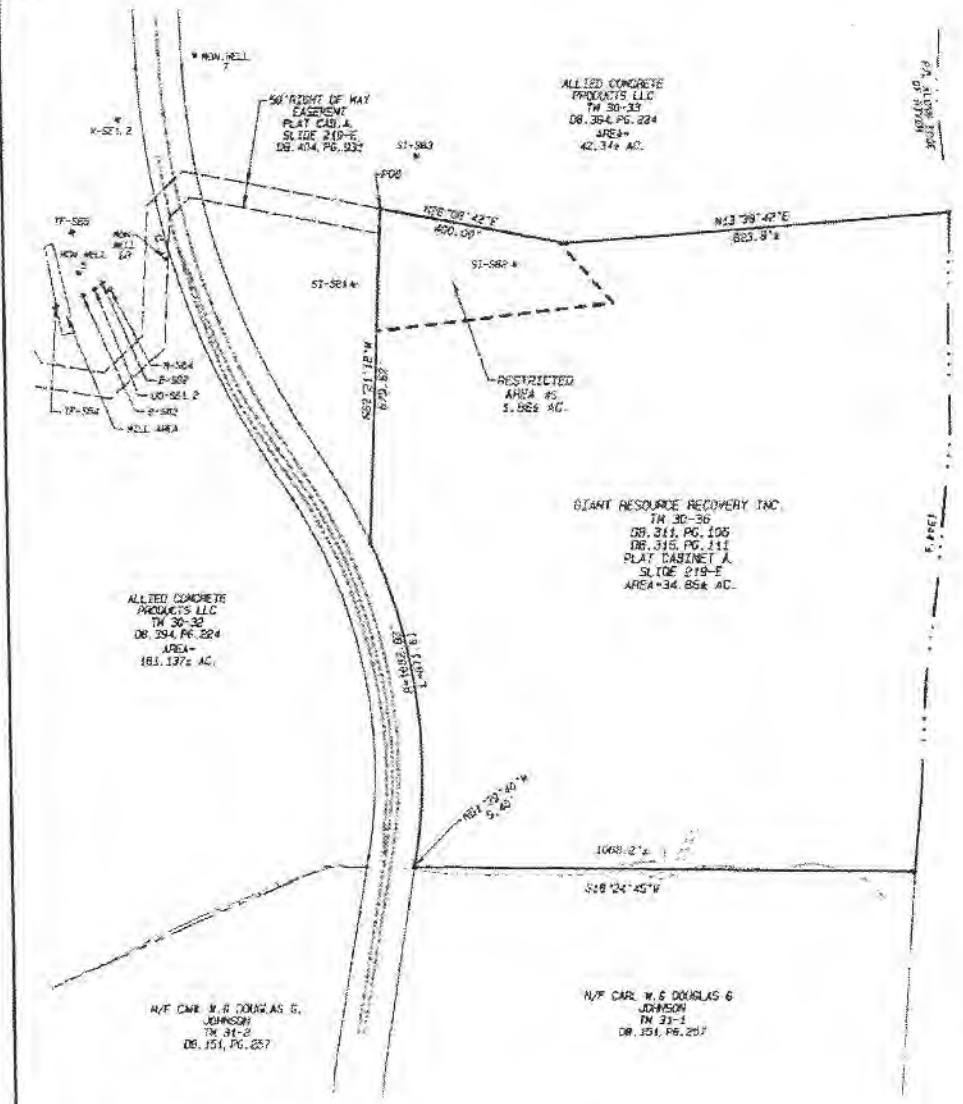


KOONTZ-BRYANT, P.C.
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(804) 740-9200 (804) 740-7338 Fax
kbbc@koontzbryant.com

Figure 2b – Soil Restriction Area 5

REFERENCE:

THIS PROPERTY APPEARS TO FALL WITHIN ZONE "3.A" AS SHOWN ON FIRM FLOOD INSURANCE RATE MAP. NOTE THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THE BOUNDARY INFORMATION WAS TAKEN FROM FORMER PLATS BY ENGINEERING DESIGN ASSOCIATES DATED MAY 7, 2013 & JANUARY 11, 2005. REFERENCE MAP BY MICHAEL SURVEYING & MAPPING, P.C. DATED DECEMBER 18, 2012 FOR STATE PLANE COORDINATE VALUES.



LATITUDE - LONGITUDE
RESTRICTED AREA #5
 NAD -76 8237692 37 7103832
 -76 8237611 37 7103116
 -76 8238363 37 7105076
 -76 8238829 37 7101425
 NAD -70 8237692 37 7103832

JAMES RIVER

PLAT OF PROPERTY SITUATED EAST OF ROUTE NO. 652 AND NORTH OF ROUTE NO. 15

MARSHALL DISTRICT, BUCKINGHAM COUNTY, VIRGINIA
 I HEREBY CERTIFY THAT THIS PLAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF IS CORRECT AND COMPLIES WITH THE BOUNDARY PROVISIONS AND STANDARD PRACTICES OF THE VIRGINIA STATE BOARD OF SURVEYING PROFESSIONAL ENGINEERS AND LANDSCAPE ARCHITECTS.

ENGINEERING DESIGN ASSOCIATES, INC.
 P. O. BOX 50067 RICHMOND, VIRGINIA 23260 (804) 236-0150
 DATE: MARCH 3, 2013 SCALE: 1" = 200' JOB NO: 14247

BOOK 445 PAGE 031

Figure 3 – Groundwater Restriction Area and Monitoring Well Locations

Administrative Record – Index of Documents for Statement of Basis

ALLIED CONCRETE PRODUCTS, LLC
EPA ID NO. VAD042755082, VAD098443443

GIANT RESOURCE RECOVERY - ARVONIA, INC.
EPA ID NO. VAR000518878
Arvonias, Virginia

ADMINISTRATIVE RECORD
INDEX OF DOCUMENTS FOR STATEMENT OF BASIS

This index includes documents that the Virginia Department of Environmental Quality (VDEQ) relied upon to develop and propose the final remedy selection determination described in the Statement of Basis. These documents were prepared for the Allied Concrete Products, LLC/Giant Resource Recovery - Arvonias, Inc. facility and are listed chronologically by document date.

1. April 17, 1997, *National Corrective Action Prioritization System (NCAPS) Assessment and Ranking for Solite Corporation Arvonias, Virginia*, VDEQ.
2. September 28, 1999, *Environmental Indicator Determination; Site Visit and Administrative Record*, VDEQ.
3. February 12, 2002, *Documentation of Environmental Indicator Determination - Current Human Exposures Under Control*, USEPA Region 3.
4. September 26, 2005, *Documentation of Environmental Indicator Determination - Current Human Exposures Under Control*, VDEQ.
5. November 3, 2005, *Evaluation of DEQ Collected Data - Revision 1*, Solite Corporation.
6. September 27, 2007, *Documentation of Environmental Indicator Determination - Migration of Contaminated Groundwater Under Control*, VDEQ.
7. July 29, 2010, *Response to June 17, 2010 Conference Call*, One Environmental Group LLC.
8. September 27, 2010, *Response to June 17, 2010 Conference Call - Comments/Approval of Sampling*, VDEQ.
9. February 9, 2011, *November 2010 Confirmatory Sampling Results*, One Environmental Group LLC.

10. January 4, 2012, *Notification of RCRA Closure*, Allied Concrete Products LLC.
11. August 8, 2012, *Kiln and Baghouse Closure Report*, Allied Concrete Products LLC.
12. December 12, 2012, *Approval of Final Closure: Closure Certifications and Final Closure Report Addressing the Kilns (2), and Air Pollution Control Equipment*, VDEQ.
13. December 13, 2012, *Tank Farm Closure Report*, Allied Concrete Products LLC.
14. February 26, 2013, *Approval of Final Closure: Closure Certifications and Final Closure Report Addressing the Tanks (15), Tank Farm Secondary Containment Pad and Tanker Truck Unloading Secondary Containment Pad and Associated Ancillary Equipment*, VDEQ.
15. December 5, 2013, *December 2013 Risk Evaluation Sampling Plan*, One Environmental Group LLC.
16. January 7, 2014, *December 2013 Risk Evaluation Sampling Plan – Approval*, VDEQ.
17. March 21, 2014, *Groundwater Monitoring Workplan and Proposed Well Closures*, One Environmental Group LLC.
18. April 2014, *2014 Comprehensive Site Evaluation Report*, One Environmental Group LLC.
19. March 24, 2015, *Groundwater Monitoring Workplan and Proposed Well Closures – Conditional Approval*, VDEQ.
20. December 3, 2015, *2014 Comprehensive Site Evaluation Report – Approval*, VDEQ.

EXHIBIT B

SOIL RESTRICTION AREAS

See Plat Cab A
Slide 262 A, B

EXHIBIT C

**GROUNDWATER RESTRICTION
AREA**

See Plat Cas A
Slide 262 C, D

EXHIBIT D

MATERIALS MANAGEMENT PLAN

MATERIALS MANAGEMENT PLAN

ALLIED CONCRETE PRODUCTS, LLC
EPA ID NOS. VAD098443443/VAD042755082

GIANT RESOURCE RECOVERY - ARVONIA, INC.
EPA ID NO. VAR000518878

JULY 7, 2017

Prepared for:

State Road 652
Arvonias, Virginia 23004

Prepared by:

Giant Resource Recovery, Inc.
654 Judge Street
Harleville, South Carolina 29448

TABLE OF CONTENTS

1.0 INTRODUCTION 3
 1.1 BACKGROUND 3
 1.2 PURPOSE..... 6
 1.4 PLAN DURATION AND REVISIONS 6
2.0 ROLES AND RESPONSIBILITIES 6
 2.1 VDEQ 6
 2.2 CURRENT OWNER 7
3.0 SOIL MANAGEMENT 7
 3.1 RESTRICTED PARCEL NO. 1 7
 3.2 RESTRICTED PARCEL NO. 2 8
 3.3 RESTRICTED PARCEL NO. 3 9
 3.4 RESTRICTED PARCEL NO. 4 10
 3.5 RESTRICTED PARCEL NO. 5 11
4.0 MATERIALS CHARACTERIZATION AND MANAGEMENT 12
 4.1 DESCRIPTION OF MATERIALS GENERATED; CHARACTERIZATION OF SOIL 12
 4.2 MANAGEMENT OF MATERIALS 13
5.0 INSPECTIONS 13
6.0 DOCUMENTATION 13

LIST OF ATTACHMENTS

ATTACHMENT A Soil Restriction Areas

1.0 INTRODUCTION

This Materials Management Plan (MMP) has been prepared for the Allied Concrete Products, LLC facility and the Giant Resource Recovery – Arvonnia, Inc. facility located at State Road 652, Arvonnia, Virginia 23004 (hereinafter referred to respectively as the Allied facility and the GRRR facility, and collectively as the Facility). The Allied facility consists of two parcels (Tax Map No. 30-32 and 30-33) totaling 223.477 acres now owned by Eagle Real Estate, LLC. The GRRR facility consists of one parcel (Tax Map No. 30-36) of 34.86 acres now owned by Giant Resource Recovery, Inc.

The Virginia Department of Environmental Quality (VDEQ) issued a Statement of Basis for the Facility on June 30, 2016. A component of the Statement of Basis required that certain land use restrictions and institutional controls be imposed in certain designated soil restriction areas of the Facility. These areas are shown as Restricted Parcels 1, 2, 3, 4, and 5 on the survey plats attached hereto as **Attachment A** prepared by Koontz-Bryant, P.C., dated June 28, 2016 and entitled, in part, “Combined Plat Showing Tax Parcels TM 30-32 and TM 30-33” and “Plat of Property Situated East of Route No. 652 and North of Route No. 15.”

1.1 BACKGROUND

The following narrative from the Statement of Basis issued for the Facility by VDEQ on June 30, 2016 provides a detailed description of the operational and ownership history of the Facility:

Solite Corporation owned and operated a lightweight aggregate manufacturing plant at the Facility, commencing operations in 1951. Lightweight aggregate is used in the manufacture of lightweight masonry units, lightweight pre-cast elements, structural concrete, and other building materials. This lightweight aggregate, bearing the registered trade name Solite®, was used in numerous construction applications where its strength-to-weight ratio, insulating, fire resistant, weather resistant, and geotechnical properties were desired.

Solite® was manufactured in four rotary kilns located on the Facility. Solite® was produced by a carefully controlled rotary kiln process in which a specially prepared raw material (clay, shale,

slate, and other materials) was fed into kilns fired at a minimum temperature of approximately 1,800° Fahrenheit (F) necessary to expand the raw material into lightweight aggregate. Initial operations utilized coal as a primary fuel source for the kilns. The kilns and associated raw material and finishing product processing facilities were located on an approximately 917 acre tract of land situated in Buckingham County, Virginia, along both sides of State Road 652 in the Town of Arvon, Virginia. Raw materials were primarily obtained from the on-site slate quarry, the active portion of which is located south of State Road 652. To the north, the property borders the Slate River and then the James River east of its confluence with the Slate River. Buckingham Branch Rail Road bisects the former production area of the Facility.

Kiln Nos. 5, 6, 7, and 8 were constructed in 1951, 1952, 1961, and 1966, respectively. Kiln No. 5 ceased operations prior to 1991 and Kiln Nos. 6, 7, and 8 ceased operations by 2012. At the current time, all kilns and finish product processing facility equipment have been removed from the Facility.

In the 1970s, the Facility began to use alternative liquid fuels, now classified as hazardous waste derived fuel, to provide the energy for lightweight aggregate production. The liquids, primarily spent solvents and other liquid hydrocarbons, were obtained from various generators including, but not limited to, furniture, automobiles, textile, pharmaceutical, and cosmetic manufacturers. Upon promulgation of the Resource Conservation and Recovery Act (RCRA), the fuel used at the facility became classified as hazardous because it was ignitable, which made the material suitable for use as fuel. Consequently, the tank farm portion of the facility was transferred to Oldover Corporation, a subsidiary of Solite Corporation, and permitted as a hazardous waste storage facility under EPA ID No. VAD098443443.

At that time, the use of these flammable wastes as fuel (i.e. energy recovery) in lightweight aggregate kilns (i.e. industrial furnaces) was specifically exempted from RCRA permitting and therefore, the lightweight aggregate operations, owned and operated under Solite Corporation, were not permitted under RCRA at that time.

Upon promulgation of the RCRA Boiler and Industrial Furnace (BIF) regulations (August 21, 1991), the use of hazardous wastes as fuel in lightweight aggregate kilns was no longer exempt

from RCRA permitting. Prior to permitting, the facility operated under Interim Status under the BIF regulations and was later permitted under EPA ID No. VAD042755082 (under the company name Solite Corporation). The lightweight aggregate manufacturing operations later became subject to the Clean Air Act National Emissions Standards for Hazardous Waste Combustors (HWC MACT regulations).

In 1999, Solite Corporation (including Oldover Corporation), was purchased by Giant Cement Holding, Inc. (GCHI). The tank farm facility's name was eventually changed to Giant Resource Recovery – Arvonía, Inc. and the lightweight aggregate facility continued to operate under the name "Solite Corporation".

In 2005, the real estate on which the lightweight aggregate facility operated (and permit VAD042755082) was purchased from Solite Corporation by Solite, LLC, a separately owned and operated Virginia company, unaffiliated with GCHI or the former Solite Corporation. Also in 2005, Solite, LLC purchased the real estate on which the hazardous waste tank farm operated. Giant Resource Recovery – Arvonía, Inc. continued to operate the hazardous waste tank farm under permit VAD098443443 from 2005 until 2010. At that point, Solite, LLC took over the operation of the tank farm and became the permittee under permit VAD098443443.

The only portion of the Facility that Solite, LLC did not buy in 2005 contained the former lightweight aggregate kiln dust settling pond (SWMU No. 9). That parcel was conveyed by Solite Corporation to Giant Resource Recovery, Inc. in 2005. In 2010, a separate Final Hazardous Waste Management Permit for the Corrective Action of Solid Waste Management Unit No. 9 (VAR000518878) was issued to Giant Resource Recovery – Arvonía, Inc. (GRRRA), (a subsidiary of Giant Resource Recovery, Inc.).

On August 30, 2011, Solite, LLC transferred the property it owned at the Facility to Allied Concrete Products, LLC, and the name of the permittee under the two operating permits at the Facility (VAD098443443 and VAD042755082) was changed to Allied. Allied thereafter operated the tank farm and kilns until closure was completed in 2012 (all RCRA permitted units have completed RCRA closure). The corrective action requirements under the lightweight aggregate kiln permit VAD042755082 were transferred to the hazardous waste tank farm storage

permit in 2013 and permit VAD042755082 was then allowed to expire. On June 30, 2015, Allied transferred the property it owned at the Facility to Eagle Real Estate, LLC, a related entity. Permit VAD098443443 which was issued to Allied and Permit VAD000518878 which was issued to GRRRA remain in effect for the completion of corrective action.

1.2 PURPOSE

The purpose of this MMP is protect human health and the environment by ensuring that (i) appropriate precautions are taken by individuals who may come into contact with soil during intrusive activities in the five (5) soil restriction areas at the Facility, and (ii) any soil from the five (5) soil restriction areas at the Facility that is removed from these areas is appropriately characterized and then reused or disposed in accordance with applicable regulatory requirements. For purposes of this MMP, "intrusive activities" means any activities that penetrate the existing ground surface, such as excavation, drilling, or trenching.

1.4 PLAN DURATION AND REVISIONS

Once approved by VDEQ, this document is the VDEQ-approved MMP for the Facility. Amendments to this MMP may be requested by the then current owner(s) of the soil restriction area(s) in which intrusive activities will take place, but may not be implemented unless and until VDEQ approves the same in writing.

2.0 ROLES AND RESPONSIBILITIES

Implementation of this MMP is the responsibility of the then current owner(s) of the soil restriction area(s) in which intrusive activities will take place. Roles and responsibilities under the MMP are summarized in the following sections.

2.1 VDEQ

VDEQ is responsible for reviewing and, if appropriate, approving any proposed amendments to this MMP. Any proposed amendments or questions about this MMP should be directed to the RCRA Corrective Action program at VDEQ. For current contact information, visit www.deq.virginia.gov.

2.2 CURRENT OWNER

The then current owner(s) of the soil restriction area(s) in which intrusive activities will take place is responsible for ensuring that all such activities are performed in accordance with this MMP. If such owner wishes to amend this MMP, it must contact VDEQ to have the proposed amendment reviewed and approved prior to conducting intrusive activities.

A copy of this MMP, and any future revisions, will be promptly provided by the then current owner(s) of the property to any entity operating on or leasing the property.

3.0 SOIL MANAGEMENT

Impacted subsurface soil may be encountered during excavation, construction, drilling, or other soil disturbing activity in any of the five (5) soil restriction areas. All personnel conducting excavation, digging, or other soil-disturbing operations must be made aware that there is a potential for encountering contamination, and must know the procedures for dealing with contamination. All soil-disturbing activities within each of the soil restriction areas is subject to this MMP and shall be conducted using the procedures described in this section.

3.1 RESTRICTED PARCEL NO. 1

As shown on **Attachment A**, Restricted Parcel No. 1 is 0.077 acres and square in shape. The contaminants of concern in the soil within Restricted Parcel No. 1 are aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, selenium, thallium, and vanadium. Excavation and disturbance of any soil within Restricted Parcel No. 1 shall be conducted in accordance with the following MMP requirements:

Intrusive activities are defined as activities penetrating the existing ground surface, such as excavation, drilling, or trenching.

Prior to initiating any intrusive activities at the Facility, the then current owner shall determine whether the activities will take place within Restricted Parcel No. 1. These requirements apply only to activities that take place within Restricted Parcel No. 1.

If an intrusive activity will take place wholly within Restricted Parcel No. 1, then any soil excavated or disturbed may remain within the boundaries of Restricted Parcel No. 1. Any soil excavated from Restricted Parcel No. 1 which is taken out of that area must be either:

- characterized and disposed of in accordance with applicable regulatory requirements, or
- characterized and, if applicable regulatory requirements are met, reused in accordance with regulatory requirements applicable to contaminated media.

If the intrusive activity takes place within Restricted Parcel No. 1 and also outside of that parcel, then the soil within the restricted parcel must:

- remain within Restricted Parcel No. 1;
- be characterized and disposed of in accordance with applicable regulatory requirements;
- or
- be characterized and, if applicable regulatory requirements are met, be reused in accordance with regulatory requirements applicable to contaminated media.

3.2 RESTRICTED PARCEL NO. 2

As shown on **Attachment A**, Restricted Parcel No. 2 is 0.076 acres and square in shape. The contaminants of concern in the soil within Restricted Parcel No. 2 are aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, selenium, thallium, and vanadium. Excavation and disturbance of any soil within Restricted Parcel No. 2 shall be conducted in accordance with the following requirements:

Intrusive activities are defined as activities penetrating the existing ground surface, such as excavation, drilling, or trenching.

Prior to initiating any intrusive activities at the Facility, the then current owner shall determine whether the activities will take place within Restricted Parcel No. 2. These requirements apply only to activities that take place within Restricted Parcel No. 2.

If an intrusive activity will take place wholly within Restricted Parcel No. 2, then any soil excavated or disturbed may remain within the boundaries of Restricted Parcel No. 2. Any soil excavated from Restricted Parcel No. 2 which is taken out of that area must be either:

- characterized and disposed of in accordance with applicable regulatory requirements, or
- characterized and, if applicable regulatory requirements are met, reused in accordance with regulatory requirements applicable to contaminated media.

If the intrusive activity takes place within Restricted Parcel No. 2 and also outside of that parcel, then the soil within the restricted parcel must:

- remain within Restricted Parcel No. 2;
- be characterized and disposed of in accordance with applicable regulatory requirements;
- or
- be characterized and, if applicable regulatory requirements are met, be reused in accordance with regulatory requirements applicable to contaminated media.

3.3 RESTRICTED PARCEL NO. 3

As shown on **Attachment A**, Restricted Parcel No. 3 is 3.597 acres. The contaminants of concern in the soil within Restricted Parcel No. 3 are aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, selenium, thallium, and vanadium. Excavation and disturbance of any soil within Restricted Parcel No. 3 shall be conducted in accordance with the following requirements:

Intrusive activities are defined as activities penetrating the existing ground surface, such as excavation, drilling, or trenching.

Prior to initiating any intrusive activities at the Facility, the then current owner shall determine whether the activities will take place within Restricted Parcel No. 3. These requirements apply only to activities that take place within Restricted Parcel No. 3.

If an intrusive activity will take place wholly within Restricted Parcel No. 3, then any soil excavated or disturbed may remain within the boundaries of Restricted Parcel No. 3. Any soil excavated from Restricted Parcel No. 3 which is taken out of that area must be either:

- characterized and disposed of in accordance with applicable regulatory requirements, or
- characterized and, if applicable regulatory requirements are met, reused in accordance with regulatory requirements applicable to contaminated media.

If the intrusive activity takes place within Restricted Parcel No. 3 and also outside of that parcel, then the soil within the restricted parcel must:

- remain within Restricted Parcel No. 3;
- be characterized and disposed of in accordance with applicable regulatory requirements;
- or
- be characterized and, if applicable regulatory requirements are met, be reused in accordance with regulatory requirements applicable to contaminated media.

3.4 RESTRICTED PARCEL NO. 4

As shown on **Attachment A**, Restricted Parcel No. 4 is 4.206 acres. The contaminants of concern in the soil within Restricted Parcel No. 4 are aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, selenium, thallium, and vanadium. Excavation and disturbance of any soil within Restricted Parcel No. 4 shall be conducted in accordance with the following requirements:

Intrusive activities are defined as activities penetrating the existing ground surface, such as excavation, drilling, or trenching.

Prior to initiating any intrusive activities at the Facility, the then current owner shall determine whether the activities will take place within Restricted Parcel No. 4. These requirements apply only to activities that take place within Restricted Parcel No. 4.

If an intrusive activity will take place wholly within Restricted Parcel No. 4, then any soil excavated or disturbed may remain within the boundaries of Restricted Parcel No. 4. Any soil excavated from Restricted Parcel No. 4 which is taken out of that area must be either:

- characterized and disposed of in accordance with applicable regulatory requirements, or
- characterized and, if applicable regulatory requirements are met, reused in accordance with regulatory requirements applicable to contaminated media.

If the intrusive activity takes place within Restricted Parcel No. 4 and also outside of the parcel, then the soil within the restricted parcel must:

- remain within Restricted Parcel No. 4;
- be characterized and disposed of in accordance with applicable regulatory requirements;
- or
- be characterized and, if applicable regulatory requirements are met, be reused in accordance with regulatory requirements applicable to contaminated media.

3.5 RESTRICTED PARCEL NO. 5

As shown on **Attachment A**, Restricted Parcel No. 5 is 1.88 acres. The contaminants of concern in the soil within Restricted Parcel No. 5 are aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, selenium, thallium, and vanadium. Excavation and disturbance of any soil within Restricted Parcel No. 5 shall be conducted in accordance with the following requirements:

Intrusive activities are defined as activities penetrating the existing ground surface, such as excavation, drilling, or trenching.

Prior to initiating any intrusive activities at the Facility, the then current owner shall determine whether the activities will take place within Restricted Parcel No. 5. These requirements apply only to activities that take place within Restricted Parcel No. 5.

If an intrusive activity will take place wholly within Restricted Parcel No. 5, then any soil excavated or disturbed may remain within the boundaries of Restricted Parcel No. 5. Any soil excavated from Restricted Parcel No. 5 which is taken out of that area must be either:

- characterized and disposed of in accordance with applicable regulatory requirements, or
- characterized and, if applicable regulatory requirements are met, reused in accordance with regulatory requirements applicable to contaminated media.

If the intrusive activity takes place within Restricted Parcel No. 5 and also outside of the parcel, then the soil within the restricted parcel must:

- remain within Restricted Parcel No. 5;
- be characterized and disposed of in accordance with applicable regulatory requirements;
- or
- be characterized and, if applicable regulatory requirements are met, be reused in accordance with regulatory requirements applicable to contaminated media.

4.0 MATERIALS CHARACTERIZATION AND MANAGEMENT

The following sections describe materials that may be generated during intrusive activities in the five (5) soil restriction areas, how soil generated from these areas will be characterized, and how these materials will be managed.

4.1 DESCRIPTION OF MATERIALS GENERATED; CHARACTERIZATION OF SOIL

Intrusive activities in the five (5) soil restriction areas may generate soil that contains metals, spent personnel protection equipment, and decontamination water. Soil generated by intrusive activities within any of the five (5) soil restriction areas that is to be removed from the area shall be characterized for metals using EPA Method 6020A, as that method may be updated, revised or modified from time-to-time.

4.2 MANAGEMENT OF MATERIALS

After being characterized, soil generated by intrusive activities within any of the five (5) soil restriction areas that is to be removed from that area may be reused (if the soil meets applicable regulatory requirements for reuse then established by VDEQ) or shall be disposed in accordance with applicable regulatory requirements.

Any spent personnel protection equipment and decontamination water shall be characterized and disposed of offsite in accordance with applicable regulatory requirements.

5.0 INSPECTIONS

The then current owner of a soil restriction area in which intrusive activities are taking place shall inspect those activities on an on-going basis to ensure they comply with this MMP.

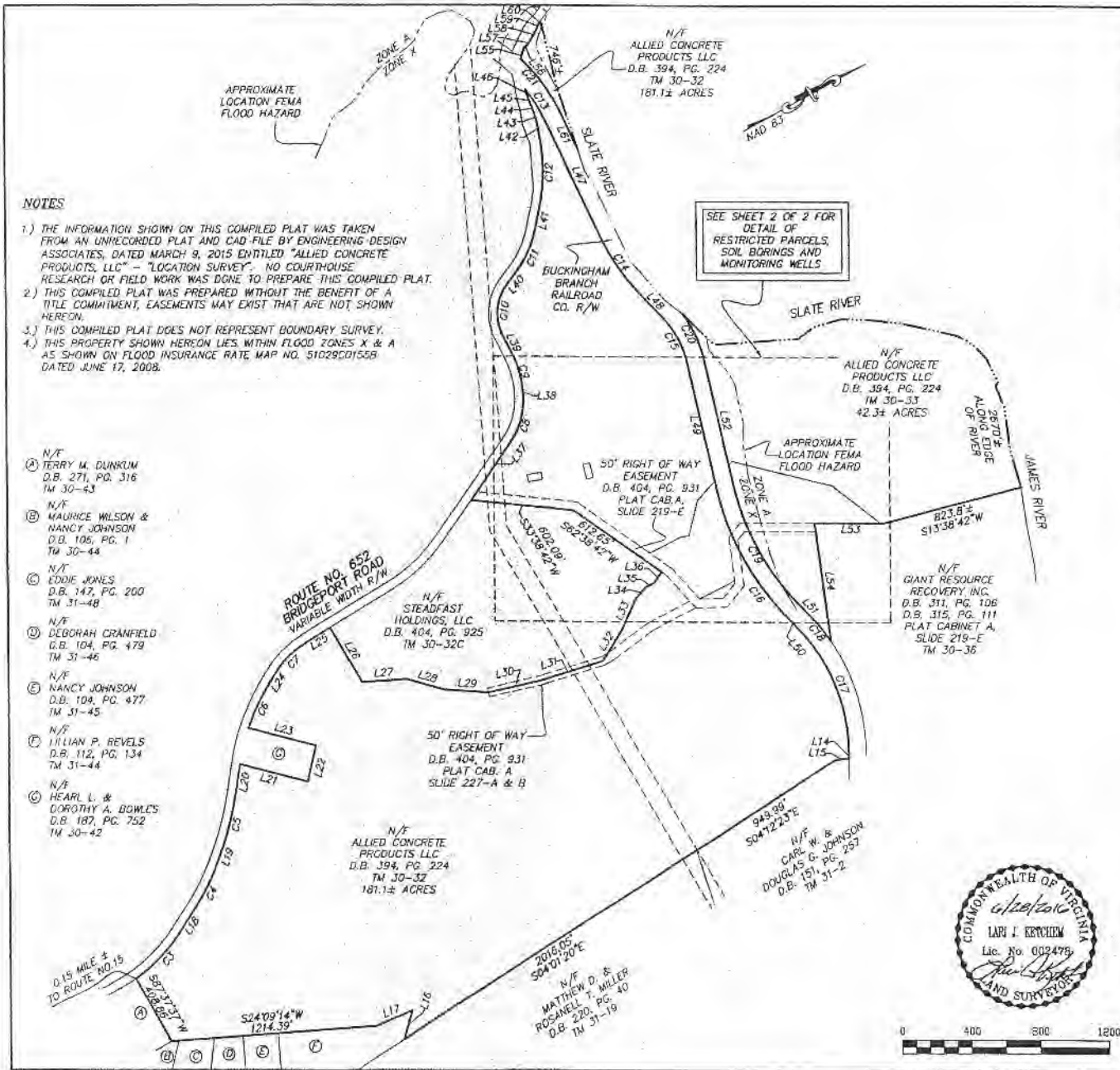
6.0 DOCUMENTATION

The following records shall be maintained for a period of five (5) years by any owner who conducts an intrusive project subject to this MMP:

- Intrusive activity work plans;
- Analytical data; and
- Manifests for materials sent off-site;

BOOK 445 PAGE 053

ATTACHMENT A



NOTES

- 1.) THE INFORMATION SHOWN ON THIS COMPILED PLAT WAS TAKEN FROM AN UNRECORDED PLAT AND CAD FILE BY ENGINEERING DESIGN ASSOCIATES, DATED MARCH 9, 2015 ENTITLED "ALLIED CONCRETE PRODUCTS, LLC" - "LOCATION SURVEY". NO COURTHOUSE RESEARCH OR FIELD WORK WAS DONE TO PREPARE THIS COMPILED PLAT.
- 2.) THIS COMPILED PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT, EASEMENTS MAY EXIST THAT ARE NOT SHOWN HEREON.
- 3.) THIS COMPILED PLAT DOES NOT REPRESENT BOUNDARY SURVEY.
- 4.) THIS PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONES X & A AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 51029D01508 DATED JUNE 17, 2008.

- N/F TERRY M. DUNKUM
D.B. 271, PG. 316
TM 30-43
- N/F MAURICE WILSON & NANCY JOHNSON
D.B. 106, PG. 1
TM 30-44
- N/F EDDIE JONES
D.B. 147, PG. 200
TM 31-48
- N/F DEBORAH CRANFIELD
D.B. 104, PG. 479
TM 31-46
- N/F NANCY JOHNSON
D.B. 109, PG. 477
TM 31-45
- N/F LILLIAN P. REVELS
D.B. 112, PG. 134
TM 31-44
- N/F HEARL L. & CROTHY A. BOWLES
D.B. 187, PG. 752
TM 30-42

SEE SHEET 2 OF 2 FOR
DETAIL OF
RESTRICTED PARCELS,
SOIL BORINGS AND
MONITORING WELLS

CURVE TABLE - OVERALL

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C3	952.10'	21°55'21"	364.29'	184.40'	N16°38'13"W	362.07'
C4	1346.70'	14°13'55"	334.51'	168.12'	N34°42'50"W	333.65'
C5	1754.17'	10°34'23"	323.71'	162.31'	N47°06'59"W	323.25'
C6	1175.81'	14°04'12"	288.74'	145.10'	N35°12'53"W	288.02'
C7	535.06'	25°09'49"	234.99'	119.42'	N15°35'53"W	233.11'
C8	414.28'	39°57'05"	288.87'	150.59'	N46°11'22"W	281.05'
C9	518.99'	23°19'59"	211.35'	107.16'	N77°49'54"W	209.90'
C10	252.00'	66°22'54"	201.96'	164.85'	N58°18'27"W	275.90'
C11	597.96'	26°45'00"	279.17'	142.18'	N36°29'32"W	276.64'
C12	979.93'	23°34'06"	403.09'	204.44'	N61°39'05"W	400.26'
C13	910.41'	13°54'03"	220.88'	110.99'	N85°23'30"E	220.34'
C14	1171.64'	19°13'43"	393.20'	198.47'	N82°43'39"E	391.36'
C15	513.39'	31°42'31"	284.12'	145.80'	N86°59'03"E	280.51'
C16	1541.46'	30°44'30"	627.06'	423.74'	N89°27'04"E	617.17'
C17	982.82'	44°15'31"	759.19'	399.67'	S83°47'25"E	740.45'
C18	1082.82'	6°43'17"	164.82'	82.52'	S78°26'28"W	164.66'
C19	1441.46'	30°44'30"	773.40'	396.25'	S89°27'04"W	764.16'
C20	613.39'		275.92'			
C21	1010.41'	22°06'12"	389.79'	197.35'	S81°17'26"W	387.38'

LINE TABLE - OVERALL

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L14	S61°39'40"E	22.90'	L38	N66°09'54"W	16.51'
L15	S18°24'45"W	86.88'	L39	N89°29'54"W	130.66'
L16	N45°31'04"W	165.52'	L40	N23°07'02"W	80.48'
L17	S05°25'40"W	223.07'	L41	N49°52'02"W	131.07'
L18	N27°35'53"W	164.76'	L42	N71°58'47"W	77.30'
L19	N41°49'48"W	43.74'	L43	N79°26'02"W	51.53'
L20	N52°24'11"W	170.88'	L44	N84°07'09"W	52.09'
L21	N41°42'14"E	416.10'	L45	N83°15'11"W	48.04'
L22	N48°37'55"W	208.65'	L46	N80°52'02"W	45.62'
L23	S41°48'13"W	411.57'	L47	S87°30'29"E	705.86'
L24	N28°10'47"W	59.27'	L48	N73°06'46"E	196.32'
L25	N03°00'59"W	180.30'	L49	S75°10'41"E	736.41'
L26	N85°59'01"E	355.92'	L50	N74°04'49"E	119.97'
L27	N24°36'03"E	259.08'	L51	S74°04'49"W	119.97'
L28	N42°47'49"E	227.82'	L52	N75°10'41"W	736.41'
L29	N31°31'49"E	256.36'	L53	S28°08'42"W	400.00'
L30	N15°48'16"E	330.68'	L54	S69°21'18"E	679.82'
L31	N10°44'49"E	358.59'	L55	N46°37'14"W	67.68'
L32	N29°12'49"W	209.56'	L56	N07°54'49"W	26.00'
L33	N37°39'22"W	200.00'	L57	N25°36'37"W	22.10'
L34	N19°15'18"W	84.24'	L58	N31°26'15"W	86.13'
L35	N02°01'42"E	53.00'	L59	N43°30'08"W	25.30'
L36	N27°21'18"W	79.68'	L60	N25°04'02"W	20'±
L37	N26°12'49"W	397.18'	L61	N87°59'29"W	214'±

FIGURE 1
COMPILED PLAT SHOWING
TAX PARCELS TM 30-32 AND TM 30-33
LYING ON THE NORTH AND SOUTH LINES
OF THE BUCKINGHAM BRANCH RAILROAD
CO. R/W AND THE EAST LINE OF ROUTE
NO. 652, BRIDGEPORT ROAD

MARSHALL DISTRICT, BUCKINGHAM COUNTY, VIRGINIA
DATE: JUNE 28, 2016
DRAWN BY: LJK
SCALE: 1" = 400'
CHECKED BY: LJK

KOONTZ-BRYANT, P.C.
Site Development Solutions
1703 N. FARMHAM ROAD
RICHMOND, VIRGINIA 23229
(804) 740-9200 (804) 740-7030 Fax
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LINE TABLE - PARCEL 1

LINE	BEARING	DISTANCE
L1	N79°26'35"E	83.90'
L2	S70°33'25"E	40.00'
L3	S19°26'35"W	83.90'
L4	N70°33'25"W	40.00'

LINE TABLE - PARCEL 2

LINE	BEARING	DISTANCE
L5	N14°15'37"E	40.00'
L6	S75°44'23"E	82.94'
L7	S14°55'57"W	40.00'
L8	N75°44'23"W	82.94'

CURVE TABLE - PARCEL 3

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C1	1541.46'	9°48'27"	263.66'	132.25'	S80°04'54"E	263.54'

CURVE TABLE - PARCEL 4

CURVE	RADIUS	DELTA ANGLE	LENGTH	TANGENT	CHORD BRNG	CHORD
C2	1441.46'	8°44'43"	220.01'	110.22'	N79°33'02"W	219.80'

STATE GRID COORDINATES - PARCEL 1
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
1	3780915.178	11532870.362
2	3780994.294	11532898.291
3	3780980.979	11532936.009
4	3780901.863	11532908.081

STATE GRID COORDINATES - PARCEL 2
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
5	3781229.388	11532971.824
6	3781268.153	11532981.677
7	3781247.724	11533062.058
8	3781208.956	11533052.205

LAT AND LONG. PARCEL 3

POINT	LAT.	LONG.
9	37.7092991	-78.3254561
10	37.7092908	-78.3262797
11	37.7091548	-78.3243826
12	37.7090748	-78.3243194
13	37.7088298	-78.3235563
14	37.7087288	-78.3235394
15	37.7081894	-78.3235602
16	37.7080388	-78.3243358
17	37.7078103	-78.3248228
18	37.7063966	-78.3248088
19	37.7065199	-78.3247548
20	37.7089108	-78.3252885

LINE TABLE - PARCEL 3

LINE	BEARING	DISTANCE
L9	S75°10'41"E	52.82'
L10	S23°51'18"E	23.84'
L11	N19°06'48"E	47.52'

LAT AND LONG. PARCEL 4

POINT	LAT.	LONG.
21	37.7095110	-78.3258915
22	37.7098815	-78.3256220
23	37.7109049	-78.3242644
24	37.7113118	-78.3231611
25	37.7094155	-78.3244437
26	37.7098281	-78.3251907

LINE TABLE - PARCEL 4

LINE	BEARING	DISTANCE
L12	N75°10'41"W	120.02'
L13	N19°04'42"W	27.12'

STATE GRID COORDINATES - PARCEL 4
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
21	3781977.028	11533370.494
22	3782002.658	11533361.629
23	3782448.858	11533753.546
24	3782597.641	11534072.430
25	3781906.460	11533702.676
26	3781948.325	11533488.518

LAT AND LONG. PARCEL 1

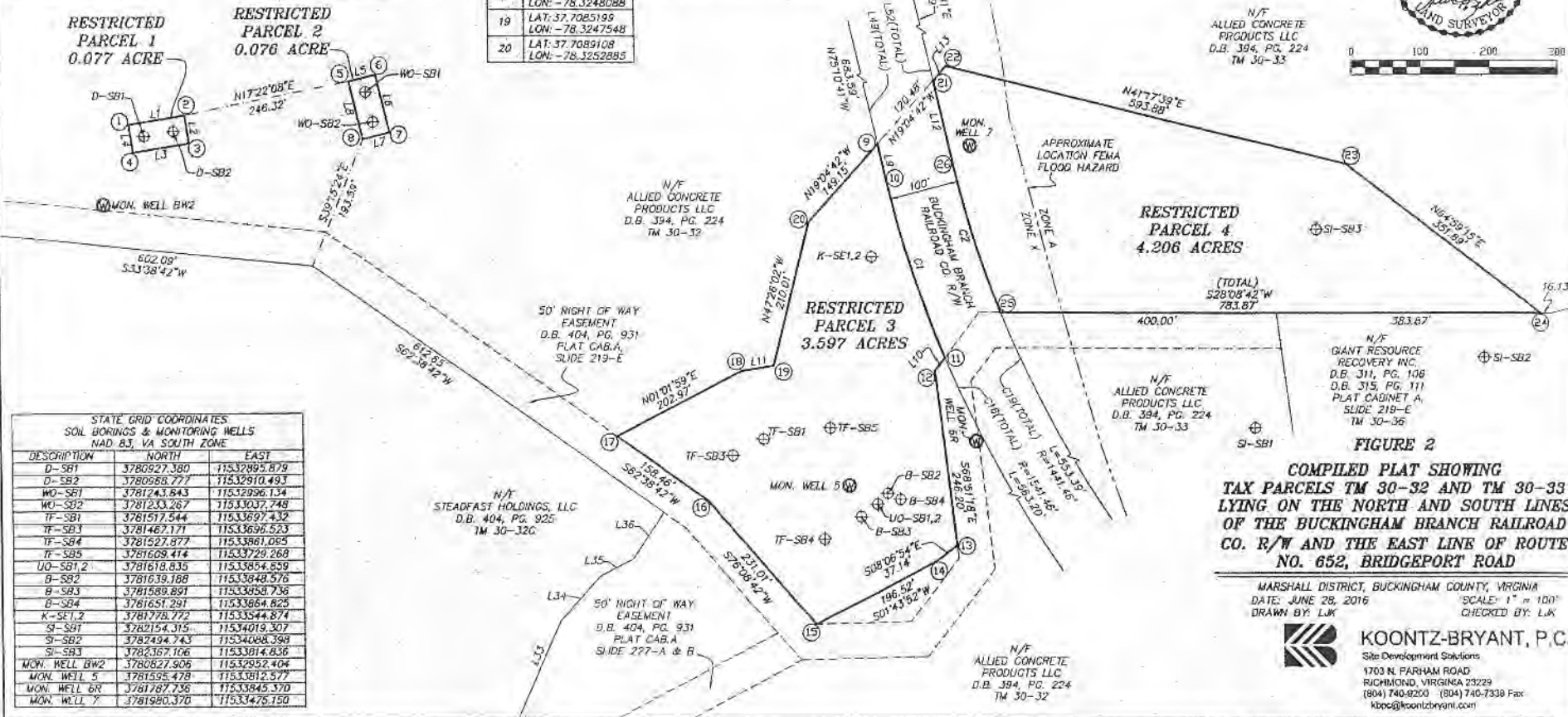
POINT	LAT.	LONG.
1	37.7066974	-78.3273271
2	37.7069146	-78.3272301
3	37.7068778	-78.3270998
4	37.7066607	-78.3271988

LAT AND LONG. PARCEL 2

POINT	LAT.	LONG.
5	37.7075598	-78.3269744
6	37.7076662	-78.3269401
7	37.7076097	-78.3266624
8	37.7075033	-78.3266967

STATE GRID COORDINATES - PARCEL 3
NAD 83, VA SOUTH ZONE

POINT	NORTH	EAST
9	3781863.165	11533408.874
10	3781849.653	11533480.936
11	3781804.260	11533720.533
12	3781782.457	11533730.175
13	3781693.646	11533959.787
14	3781656.880	11533965.040
15	3781460.447	11533959.103
16	3781405.128	11533734.813
17	3781332.317	11533694.076
18	3781535.255	11533597.736
19	3781580.154	11533613.294
20	3781722.211	11533458.624



STATE GRID COORDINATES
SOIL BORINGS & MONITORING WELLS
NAD 83, VA SOUTH ZONE

DESCRIPTION	NORTH	EAST
D-SB1	3780927.380	11532895.879
D-SB2	3780985.777	11532910.493
WO-SB1	3781243.843	11532956.134
WO-SB2	3781233.267	11533037.748
TF-SB1	3781517.544	11533697.432
TF-SB3	3781467.171	11533696.523
TF-SB4	3781527.877	11533861.085
TF-SB5	3781609.414	11533729.268
UO-SB1, 2	3781618.835	11533854.659
B-SB2	3781639.188	11533848.576
B-SB3	3781589.891	11533858.736
B-SB4	3781651.291	11533864.825
K-SB1, 2	3781787.722	11533544.874
SI-SB1	3782154.315	11534019.307
SI-SB2	3782494.743	11534008.398
SI-SB3	3782367.106	11533814.836
MON. WELL BW2	3780827.906	11532952.404
MON. WELL 5	3781955.478	11533812.577
MON. WELL 6R	3781787.736	11533845.370
MON. WELL 7	3781980.370	11533475.150

FIGURE 2
COMPILED PLAT SHOWING
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