

---

# Public Notice

---

**U.S. Army Corps  
of Engineers**  
Pittsburgh District

In Reply Refer to  
Notice No. below

US Army Corps of Engineers, Pittsburgh District  
1000 Liberty Avenue  
Pittsburgh, PA 15222-4186

---

Application No. LRP-2012-405

Date: June 30, 2015

---

Notice No. 15-30

Closing Date: July 19, 2015

---

1. TO ALL WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act.
2. APPLICANT: Mr. Rick Lowry  
MarkWest Liberty Midstream & Resources, LLC.  
4600 J. Barry Court, Suite 500  
Canonsburg, Pennsylvania 15317
3. LOCATION: The project is located along Calis-Majorsville Road in Majorsville, Marshall County, West Virginia. Approximate coordinates for the center of the proposed project are: 39.9562° N, 80.5221° W.
4. PURPOSE AND DESCRIPTION OF WORK: The applicant proposes to construct an expansion to the Majorsville Natural Gas Processing Facility consisting of three additional cryogenic plants (8, 9, and 10) and an additional de-ethanizer plant (Unit 2). The proposed work would include the clearing and grading of 42 acres to provide the footprint necessary to build the processing facility and the necessary appurtenances. These additional facilities will increase the natural gas processing capacity by 600 million standard cubic feet per day (MSCFD) and 68,000 barrel per day (BPD) of ethane extraction.

The Corps authorized the construction of Majorsville 3/4/5/6 on April 2, 2013, in Department of the Army Permit LRP-2012-405. The Majorsville Cryo Plants 8/9/10 and De-Ethanizer 2 proposal includes a cumulative impacts assessment for the overall project. This expansion will result in permanent impacts to Waters of the United States including enclosures and fills of seven (7) unnamed tributaries (UNTs) of Enlow Fork and nine (9) wetland fills. Total proposed permanent impacts are estimated at 3,038 linear feet (LF) of stream and 0.383 acres of wetlands for this proposal.

The original Majorsville Plants 1 and 2 have the capacity to process 270 MSCFD and the previously permitted Majorsville facilities (Plants 3, 4, 5, and 6) have the capacity to process 800 MSCFD. Additionally, Majorsville Cryo Plant 7 is proposed to be constructed within the existing plant footprint. However, these previous expansions have not satisfied the demand of natural gas producers supplying raw gas to the facility. Therefore, the applicant is proposing an expansion

that is anticipated to meet current and foreseeable future demands. At the full completion of this expansion, the complex will have a total operating capacity of approximately 1,870 MSCFD cryogenic processing and 136,000 BPD de-ethanization.

As mitigation, the applicant is proposing to pay into the West Virginia In-Lieu Fee (ILF) program to offset the loss of streams and wetlands for the project in the amount of 1,952.28 stream credits and 0.858 wetland credits.

5. WEST VIRGINIA CERTIFICATION: This permit decision will not be made until the State of West Virginia, Division of Environmental Protection (WVDEP), issues, denies, or waives State Certification. This public notice does not serve as application to the WVDEP for certification required by Section 401 of the Clean Water Act. An individual 401 water quality certification (WQC) is required for this proposed activity in conjunction with Section 404 of the Clean Water Act permit. The applicant must apply directly to the WVDEP for an individual 401 WQC. The WVDEP will also consider whether or not the proposed activity will comply with sections 301, 302, 303, 306, 307 of the Clean Water Act or any other appropriate State laws. Please contact the below to determine if a individual 401 WQC is required for this proposed activity:

Ms. Wilma Reip  
West Virginia DEP  
601 57th Street, S.E.  
Charleston, West Virginia 25304  
Phone: 304-926-0499 ext. 1599  
E-mail: Wilma.Reip@wv.gov

6. IMPACT ON NATURAL RESOURCES: The applicant has coordinated with the U.S. Fish and Wildlife Service for review of impacts to federally listed species subject to the Endangered Species Act (ESA). As a result of the coordination efforts, it has been determined that the project may affect, but is not likely to adversely affect, the Indiana bat or northern long-eared bat. This determination is detailed in a determination from USFWS, dated December 30, 2013, with follow-up correspondence in March 2015, explaining measures such as seasonal tree cutting restrictions and bat habitat enhancement to be done by the applicant. A mussel survey and relocation will be completed for the Enlow Fork crossing per request of the WV Division of Natural Resources.

7. IMPACT ON CULTURAL RESOURCES: The applicant has coordinated with West Virginia Division of Culture and History (WVDCH) for review of impacts to archaeological and/or historical resources subject to Section 106 of the National Historic Preservation Act (NHPA) of 1966 Public Law 89-665 as amended (including Public Law 96-515). As a result of the coordination efforts, WVDCH has determined in a letter dated December 2, 2013, (FR# 14-114-MR) that the project will not have an adverse effect to archaeological resources. WVDCH determined in a letter dated April 2, 2015, that no architectural properties are eligible for or listed in the National Register of Historic Places that will be adversely affected by the proposed project.

8. **PUBLIC INVOLVEMENT:** Any person may request, in writing, within the comment period specified in the paragraph below entitled "RESPONSES," that a public hearing be held to consider this application. The requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

9. **EVALUATION:** Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposals must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the overall public interest of the proposed activity. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

10. **RESPONSES:** A permit will be granted unless its issuance is found to be contrary to the public interest. Written statements concerning the proposed activity should be received in this office on or before the closing date of this Public Notice in order to become a part of the record and to be considered in the final determination, comments can be mailed to:

U.S. Army Corps of Engineers, Pittsburgh District  
1000 Liberty Avenue  
Pittsburgh, PA 15222-4186  
Re: Public Notice CELRP-OP-F No. 15-30

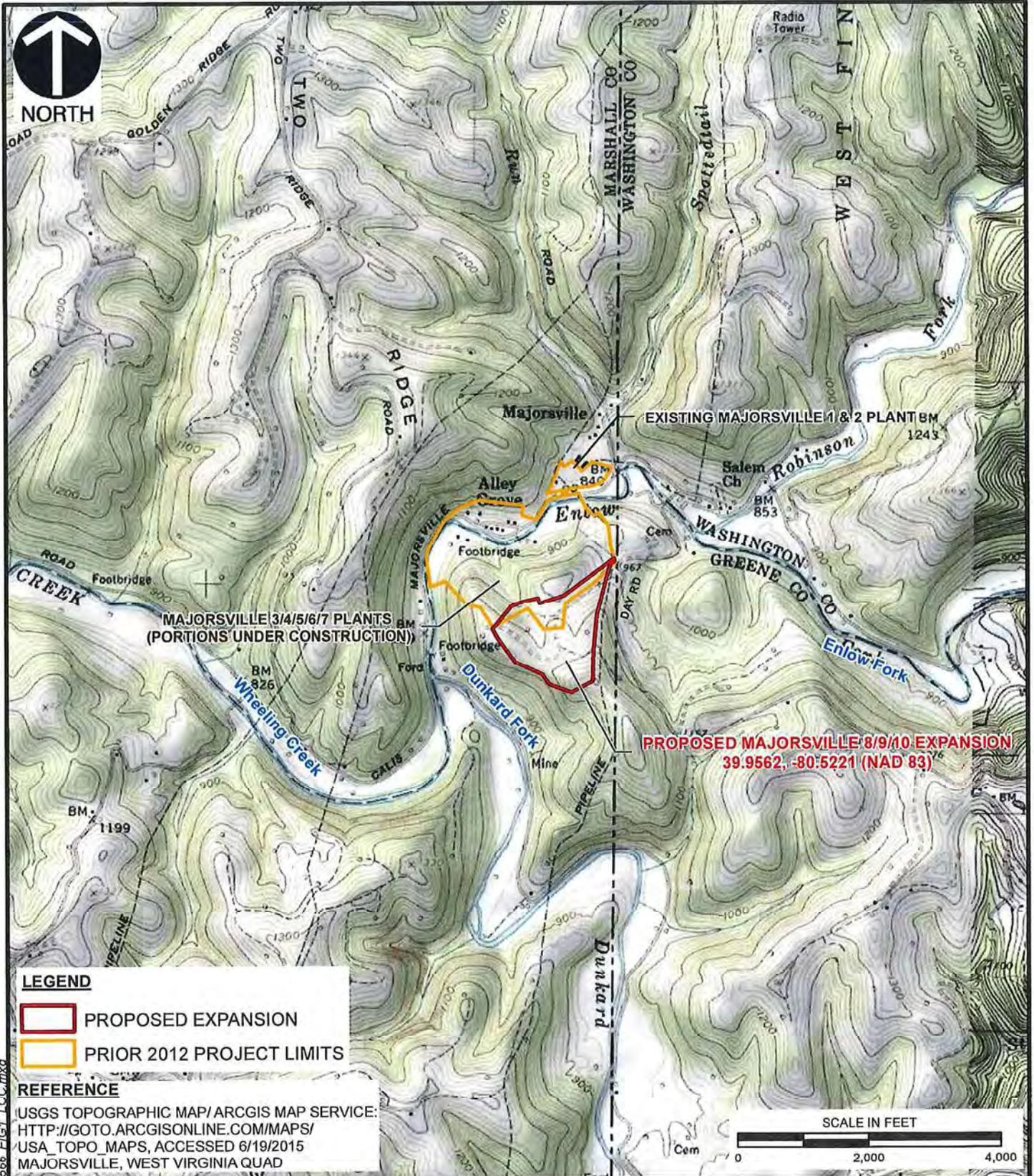
CELRP-OP-F  
Public Notice No. 15-30

Any objections which are received during this period may be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. All responses to this notice should be directed to the Regulatory Branch, attn Josh Shaffer at the above address, by telephoning (412) 395-7121, or by e-mail at [joshua.d.shaffer@usace.army.mil](mailto:joshua.d.shaffer@usace.army.mil). Please refer to CELRP-OP-F LRP-2012-405 in all responses.

FOR THE DISTRICT ENGINEER:

// SIGNED //

Karen Kochenbach  
Chief, Southern Section  
Regulatory Branch



**LEGEND**

- PROPOSED EXPANSION
- PRIOR 2012 PROJECT LIMITS

**REFERENCE**

USGS TOPOGRAPHIC MAP/ARCGIS MAP SERVICE:  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/](http://gto.arcgis.com/maps/)  
 USA\_TOPO\_MAPS, ACCESSED 6/19/2015  
 MAJORSVILLE, WEST VIRGINIA QUAD



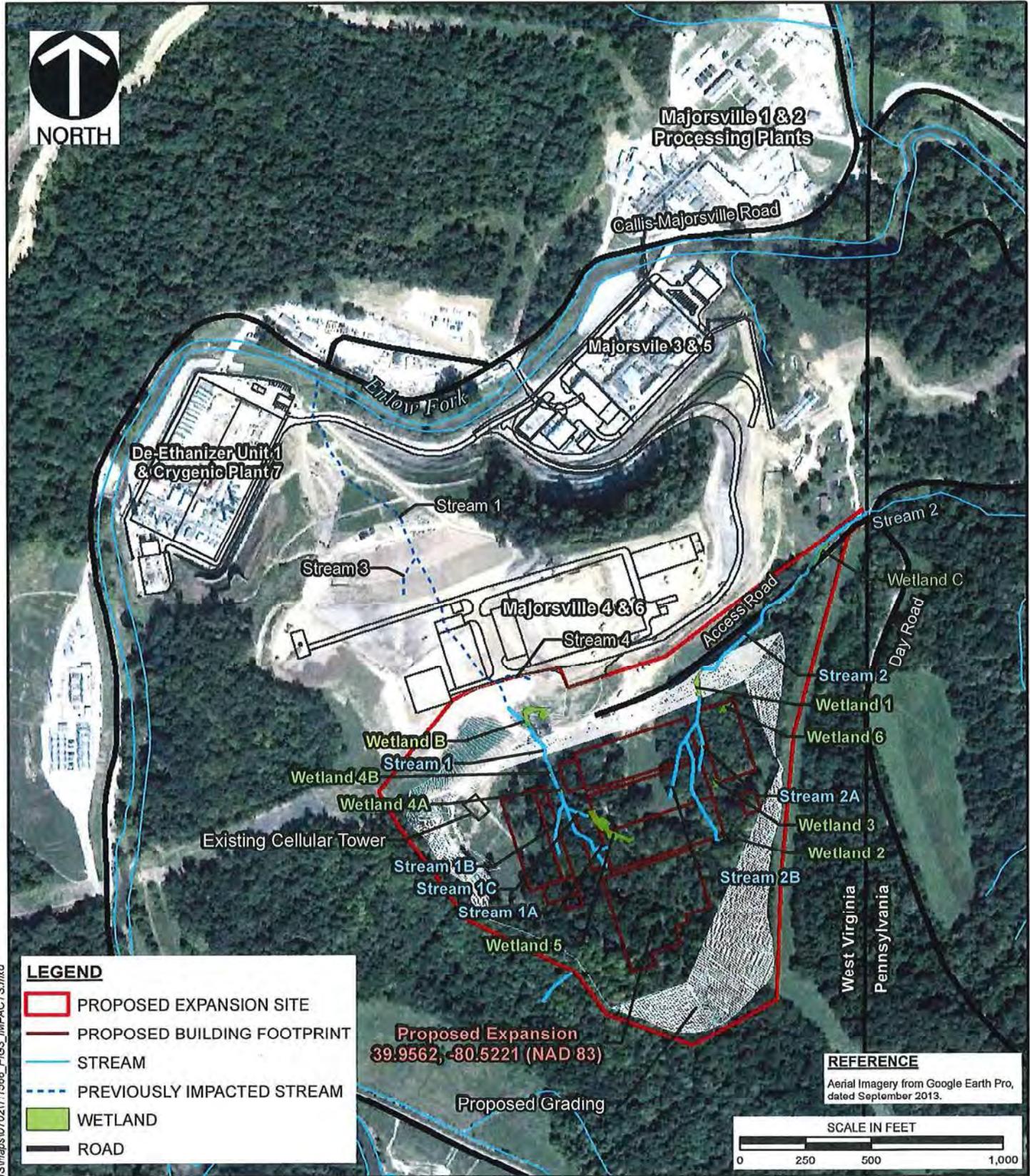
**Civil & Environmental Consultants, Inc.**  
 333 Baldwin Road - Pittsburgh, PA 15205-9072  
 412-429-2324 • 800-365-2324  
[www.cecinc.com](http://www.cecinc.com)

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC  
 MAJORSVILLE CRYO PLANTS 8/9/10  
 AND DE-ETHANIZER 2  
 MARSHALL COUNTY, WEST VIRGINIA

**SITE LOCATION MAP**

DRAWN BY:	TLG	CHECKED BY:	JRF	APPROVED BY: <sup>* Hand signature on file</sup> TJN*	FIGURE NO:	<b>1</b>
DATE:	4/20/2015	SCALE:	1" = 2,000'	PROJECT NO:	111-566.0702	

P:\2011\111-566\GIS\maps\0702\111566\_EIG1\_LCC.mxd



**LEGEND**

- PROPOSED EXPANSION SITE
- PROPOSED BUILDING FOOTPRINT
- STREAM
- PREVIOUSLY IMPACTED STREAM
- WETLAND
- ROAD

Proposed Expansion  
39.9562, -80.5221 (NAD 83)

**REFERENCE**  
Aerial Imagery from Google Earth Pro,  
dated September 2013.



I:\sv-pittsburgh\projects\2011\11-5661-GIS\maps\070211\1566\_FIG3\_IMPACTS.mxd



**Civil & Environmental Consultants, Inc.**  
333 Baldwin Road - Pittsburgh, PA 15205-9072  
412-429-2324 • 800-365-2324  
www.cecinc.com

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC  
MAJORSVILLE CRYO PLANTS 8/9/10  
AND DE-ETHANIZER 2  
MARSHALL COUNTY, WEST VIRGINIA

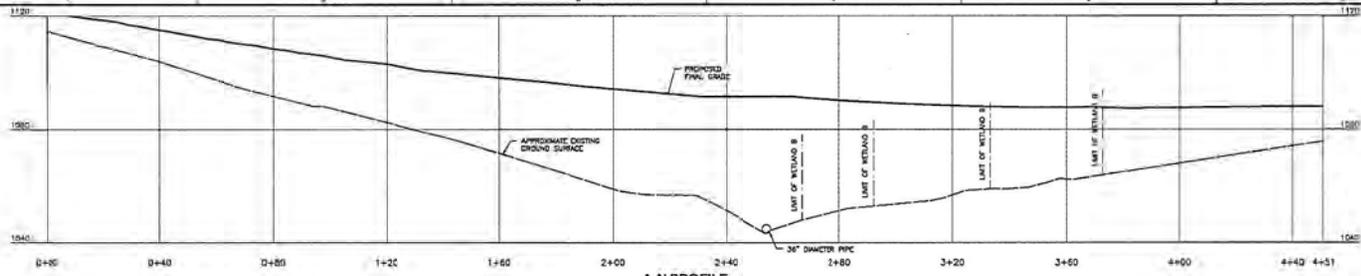
**AQUATIC RESOURCE IMPACTS**

DRAWN BY:	TLG	CHECKED BY:	JRF	APPROVED BY: <sup>*</sup> Hand signature on file	TJN <sup>*</sup>	FIGURE NO:	<b>3</b>
DATE:	4/16/2015	DWG SCALE:	1" = 500'	PROJECT NO:	111-566.0702		

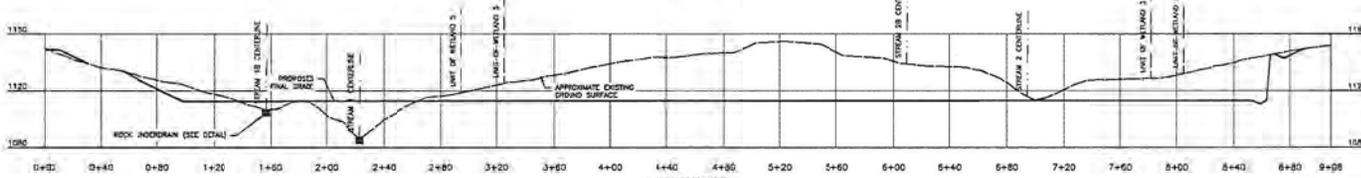
**Majorsville Cryo Plants 8/9/10 and De-Ethanizer 2  
Aquatic Resource Impacts**

<b>RESOURCE</b>	<b>CLASSIFICATION</b>	<b>IMPACT (LINEAR FEET / ACREAGE)</b>	<b>IMPACT TYPE</b>
Stream 1	Intermittent	400	Enclosure (Pipe)
Stream 1	Ephemeral	336	Fill (Rock Drain)
Stream 1A	Ephemeral	55	Fill (Rock Drain)
Stream 1B	Ephemeral	235	Fill (Rock Drain)
Stream 1C	Ephemeral	85	Fill (Rock Drain)
Stream 2	Perennial	905	Enclosure (Pipe)
Stream 2	Ephemeral	599	Fill (Rock Drain)
Stream 2A	Ephemeral	192	Fill (Rock Drain)
Stream 2B	Ephemeral	231	Fill (Rock Drain)
Wetland 1	PEM	0.034	Fill
Wetland 2	PEM	0.007	Fill
Wetland 3	PEM	0.017	Fill
Wetland 4A	PEM	0.005	Fill
Wetland 4B	PEM	0.009	Fill
Wetland 5	PEM	0.148	Fill
Wetland 6	PUB	0.026	Fill
Wetland B	PEM	0.093	Fill
Wetland C	PEM	0.044	Fill
<b>TOTAL PERENNIAL STREAM IMPACT</b>		<b>905 LINEAR FEET (LF)</b>	
<b>TOTAL INTERMITTENT STREAM IMPACT</b>		<b>400 LF</b>	
<b>TOTAL EPHEMERAL STREAM IMPACT</b>		<b>1733 LF</b>	
<b>TOTAL STREAM IMPACT</b>		<b>3038 LF</b>	
<b>TOTAL WETLAND IMPACT</b>		<b>0.383 ACRE</b>	

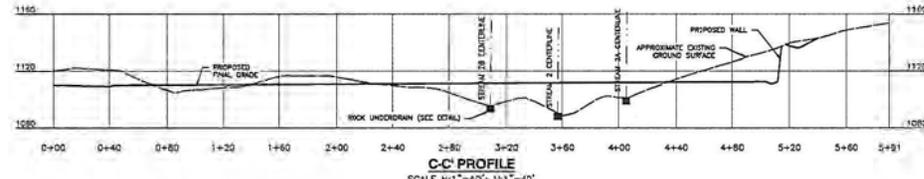




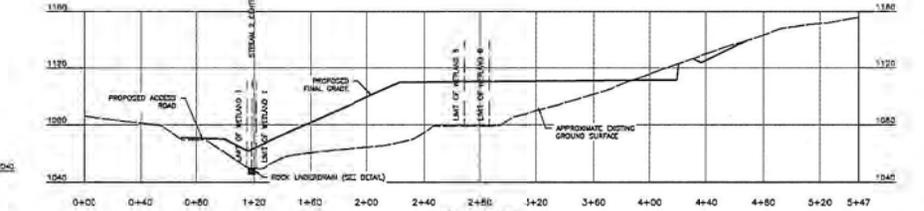
**A-A' PROFILE**  
SCALE: H:1"=40'; V:1"=40'



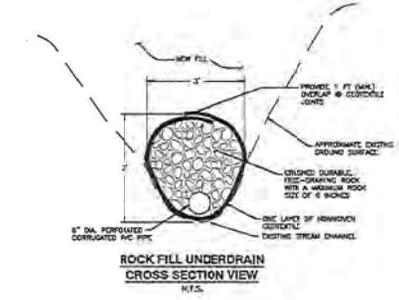
**B-B' PROFILE**  
SCALE: H:1"=40'; V:1"=40'



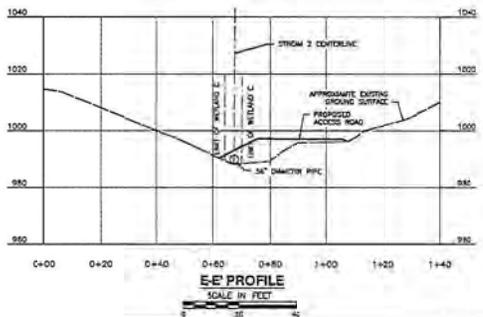
**C-C' PROFILE**  
SCALE: H:1"=40'; V:1"=40'



**D-D' PROFILE**  
SCALE: H:1"=40'; V:1"=40'

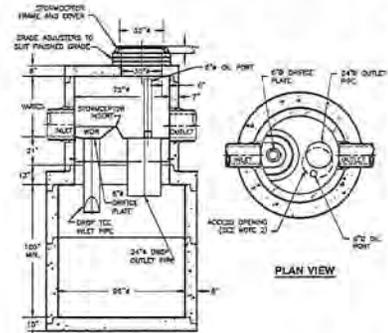


**ROCK FILL UNDERDRAIN CROSS SECTION VIEW**  
N.T.S.



**E-E' PROFILE**  
SCALE: H:1"=40'; V:1"=40'

SOIL HYDROLOGY STUDY TO BE COMPLETED PRIOR TO CONSTRUCTION. PERMANENT PLAN INCLUSIVE FLOW-TABLED WEIRING POOL UNDERDRAIN TO BE INSTALLED IN EROSION/STABILIZATION CHANNELS OPEN CHANNELS TO BE INSTALLED IN PERMANENT STREAM CHANNELS.



**SECTION THRU CHAMBER**

- NOTES:
1. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET PIPE APPLICABLE.
  2. THE COVER SHOULD BE PROTECTED OVER THE OUTLET DRIP PIPE AND THE 2\"/>

**STC 3600 PRECAST CONCRETE STORMCEPTOR®**  
**(3600 U.S. GALLON CAPACITY)**  
NOT TO SCALE

- REFERENCE**
1. PORTIONS OF EXISTING TOPOGRAPHY PROVIDED TO CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) BY ROE EXIST MAPPING, INC. DATED NOVEMBER 18, 2011 AND MICHAEL BARRY COMPANY (MBC) DATED DECEMBER 14, 2011. PORTIONS OF EXISTING TOPOGRAPHY PROVIDED FROM THE PLANNING PROGRAM 2011 TOTAL ELEVATION MODEL OF POLYUNION COUNTY, VIRGINIA. PLANNING PROGRAM 2011 TOTAL ELEVATION MODEL OF POLYUNION COUNTY, VIRGINIA. PORTIONS OF EXISTING TOPOGRAPHY PROVIDED BY THE DESIGN CONTRACTOR 2011 AND OCTOBER 2011. CONTRACTOR TO VERIFY ALL ELEVATIONS IN THE FIELD AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.
  2. WETLANDS AND STREAM DELINEATION BY G22 ON SEPTEMBER 24-25, 2012 AND BETWEEN 7 AND 21, 2013.
  3. PORTIONS OF AIR-QUALITY TOPOGRAPHY FIELD SURVEY PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 12/03/2013.

REVISION	NO.	DATE	DESCRIPTION

**Civil & Environmental Consultants, Inc.**  
333 Middle Road - Pittsburgh, PA 15205  
412-232-2324 • 600-536-2324  
www.ceconline.com

**MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC**  
**MAJORSVILLE CRYO PLANTS 2/9/10**  
**AND DE-ETHANIZER 2/9/10**  
**MARSHALL COUNTY, WEST VIRGINIA**

DATE	4/20/12
SCALE	AS SHOWN
PROJECT NO.	111-080202
PROJECT NAME	PROPOSED GRADING SECTIONS AND DETAILS
PROJECT LOCATION	
PROJECT OWNER	
PROJECT ENGINEER	
PROJECT ARCHITECT	