

## CITY OF BRISTOL MEETING AGENDA

May 23, 2022

### LFG Monitoring and Reporting

- Semi-Monthly Daily Temperature Status Update Report – SCS submitted on the 13<sup>th</sup>
- May 3<sup>rd</sup> NOV letter response – SCS submitted on the 13<sup>th</sup>
- May 3<sup>rd</sup> Warning Letter response – SCS submitted on 5/20/22
- April 29<sup>th</sup> PBR deficiency letter response - SCS submitted on 5/20/22
- 3/8/22 temperature HOV request letter - Waiting for EPA response
- Permit 221 NSPS Exemption Determination Proposal to City – under development
- SEM Monitoring
  - Next event early June
  - SCS to perform at least Permit 588 monitoring with City
- Remote temperature monitoring proposal – under City review
- Pump cleaning and testing station proposal – under City review

### Odor Monitoring and Reporting

- SCS drafting revised Odor Management Plan ahead of 6/7/22 deadline; discussion

### Landfill Operations and Maintenance Activities

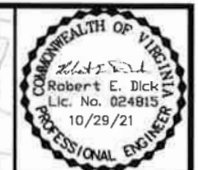
- City provide staffing update
- Permit 588 LF - City's ongoing cover soil placement efforts
- Permit 498 LF - City's efforts for soil placement and addressing ponded areas
- Permit 498 LF Wet Well
  - Additional Sampling by SCS – Week of May 23<sup>rd</sup>
  - LFG Condensate at blower for City flare and blower for LFGE Plant
  - Wet Well for Hazardous Waste Characterization (i.e. TCLP)

### Expert Panel Report Requirements

- Plan of Action Request letter from VDEQ dated 5/6/22.
- Acknowledged receipt before 5/20/22 - Completed via e-mail from Randy Eads on 5/18/22.
- Submit Action Plan by 7/6/22; on-going







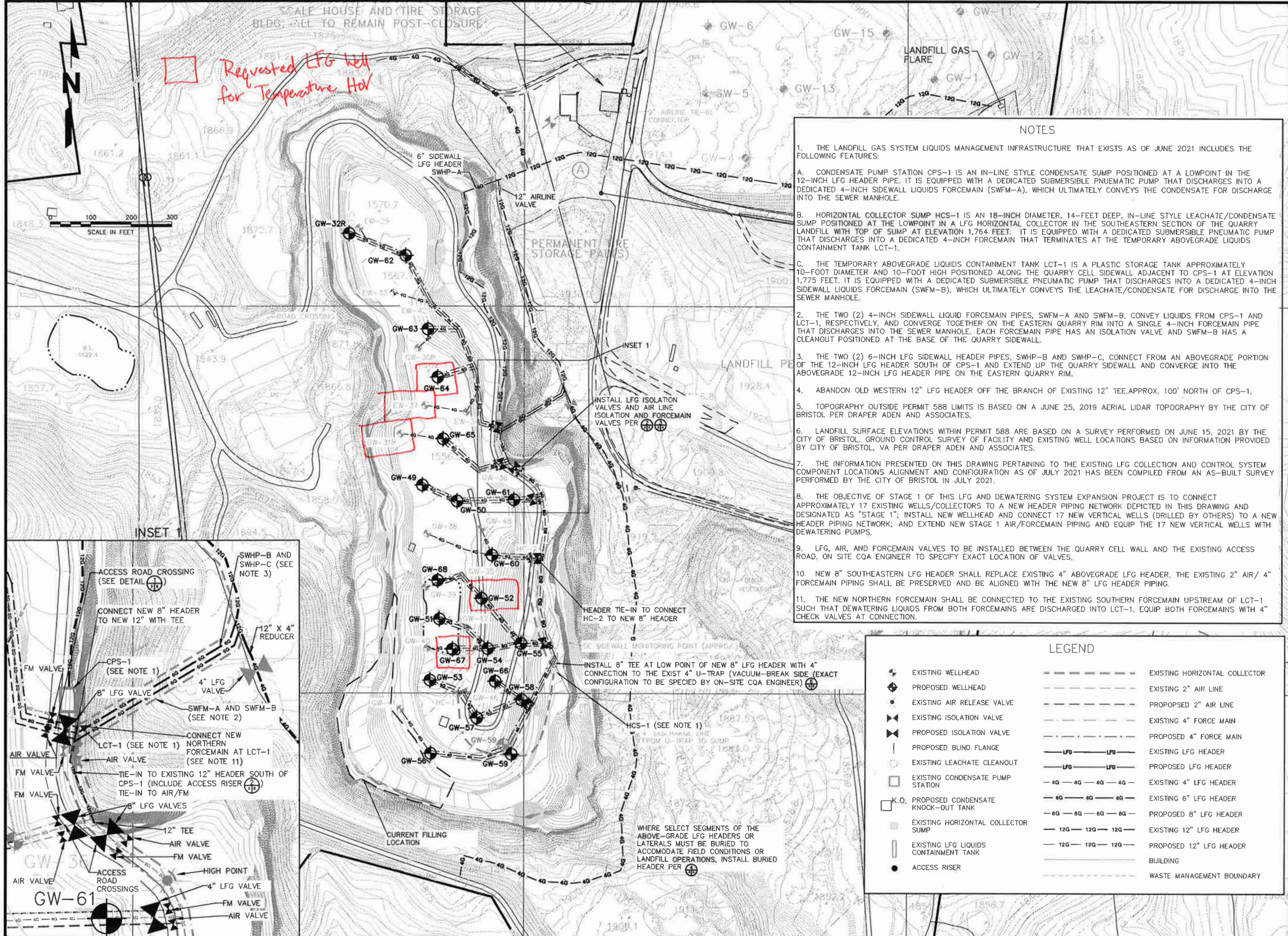
DATE	8/6/21
REVISION	11/15/21
NO.	ACCESS RISER
	POST-BID MODIFICATION

SHEET TITLE	STAGE 2 PROPOSED LFG SYSTEM LAYOUT
PROJECT TITLE	LFG AND DEWATERING SYSTEM IMPROVEMENT PROJECT

CITY OF BRISTOL INTEGRATED  
WASTE MANAGEMENT FACILITY  
2125 SHAKESVILLE RD  
BRISTOL, VA 24201

CLIENT  
**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT  
CONSULTING ENGINEERS, INC.  
15521 MIDLOTHIAN TRPK - MIDLOTHIAN, VA 23113  
PH. (804) 376-7440 FAX. (804) 376-7433

CADD FILE:  
LAYOUT  
DATE:  
10/2021  
SCALE:  
1" = 100'  
DRAWING NO.  
**3** of 6



- NOTES
- THE LANDFILL GAS SYSTEM LIQUIDS MANAGEMENT INFRASTRUCTURE THAT EXISTS AS OF JUNE 2021 INCLUDES THE FOLLOWING FEATURES:
    - CONDENSATE PUMP STATION CPS-1 IS AN IN-LINE STYLE CONDENSATE SUMP POSITIONED AT A LOWPOINT IN THE 12-INCH LFG HEADER PIPE. IT IS EQUIPPED WITH A DEDICATED SUBMERSIBLE PNEUMATIC PUMP THAT DISCHARGES INTO A DEDICATED 4-INCH SIDEWALL LIQUIDS FORCEMAIN (SWFM-A), WHICH ULTIMATELY CONVEYS THE CONDENSATE FOR DISCHARGE INTO THE SEWER MANHOLE.
    - HORIZONTAL COLLECTOR SUMP HCS-1 IS AN 18-INCH DIAMETER, 14-FOOT DEEP, IN-LINE STYLE LEACHATE/CONDENSATE SUMP POSITIONED AT THE LOWPOINT IN A LFG HORIZONTAL COLLECTOR IN THE SOUTHEASTERN SECTION OF THE QUARRY LANDFILL WITH TOP OF SUMP AT ELEVATION 1,764 FEET. IT IS EQUIPPED WITH A DEDICATED SUBMERSIBLE PNEUMATIC PUMP THAT DISCHARGES INTO A DEDICATED 4-INCH FORCEMAIN THAT TERMINATES AT THE TEMPORARY ABOVEGRADE LIQUIDS CONTAINMENT TANK LCT-1.
    - THE TEMPORARY ABOVEGRADE LIQUIDS CONTAINMENT TANK LCT-1 IS A PLASTIC STORAGE TANK APPROXIMATELY 10-FOOT DIAMETER AND 10-FOOT HIGH POSITIONED ALONG THE QUARRY CELL SIDEWALL ADJACENT TO CPS-1 AT ELEVATION 1,775 FEET. IT IS EQUIPPED WITH A DEDICATED SUBMERSIBLE PNEUMATIC PUMP THAT DISCHARGES INTO A DEDICATED 4-INCH SIDEWALL LIQUIDS FORCEMAIN (SWFM-B), WHICH ULTIMATELY CONVEYS THE LEACHATE/CONDENSATE FOR DISCHARGE INTO THE SEWER MANHOLE.
  - THE TWO (2) 4-INCH SIDEWALL LIQUID FORCEMAIN PIPES, SWFM-A AND SWFM-B, CONVEY LIQUIDS FROM CPS-1 AND LCT-1, RESPECTIVELY, AND CONVERGE TOGETHER ON THE EASTERN QUARRY RIM INTO A SINGLE 4-INCH FORCEMAIN PIPE THAT DISCHARGES INTO THE SEWER MANHOLE. EACH FORCEMAIN PIPE HAS AN ISOLATION VALVE AND SWFM-B HAS A CLEANOUT POSITIONED AT THE BASE OF THE QUARRY SIDEWALL.
  - THE TWO (2) 6-INCH LFG SIDEWALL HEADER PIPES, SWHP-B AND SWHP-C, CONNECT FROM AN ABOVEGRADE PORTION OF THE 12-INCH LFG HEADER SOUTH OF CPS-1 AND EXTEND UP THE QUARRY SIDEWALL AND CONVERGE INTO THE ABOVEGRADE 12-INCH LFG HEADER PIPE ON THE EASTERN QUARRY RIM.
  - ABANDON OLD WESTERN 12" LFG HEADER OFF THE BRANCH OF EXISTING 12" TEE, APPROX. 100' NORTH OF CPS-1.
  - TOPOGRAPHY OUTSIDE PERMIT 588 LIMITS IS BASED ON A JUNE 25, 2019 AERIAL LIDAR TOPOGRAPHY BY THE CITY OF BRISTOL PER DRAPER ADEN AND ASSOCIATES.
  - LANDFILL SURFACE ELEVATIONS WITHIN PERMIT 588 ARE BASED ON A SURVEY PERFORMED ON JUNE 15, 2021 BY THE CITY OF BRISTOL. GROUND CONTROL SURVEY OF FACILITY AND EXISTING WELL LOCATIONS BASED ON INFORMATION PROVIDED BY CITY OF BRISTOL, VA PER DRAPER ADEN AND ASSOCIATES.
  - THE INFORMATION PRESENTED ON THIS DRAWING PERTAINING TO THE EXISTING LFG COLLECTION AND CONTROL SYSTEM COMPONENT LOCATIONS ALIGNMENT AND CONFIGURATION AS OF JULY 2021 HAS BEEN COMPILED FROM AN AS-BUILT SURVEY PERFORMED BY THE CITY OF BRISTOL IN JULY 2021.
  - THE OBJECTIVE OF STAGE 1 OF THIS LFG AND DEWATERING SYSTEM EXPANSION PROJECT IS TO CONNECT APPROXIMATELY 17 EXISTING WELLS/COLLECTORS TO A NEW HEADER PIPING NETWORK DEPICTED IN THIS DRAWING AND DESIGNATED AS "STAGE 1"; INSTALL NEW WELLHEAD AND CONNECT 17 NEW VERTICAL WELLS (DRILLED BY OTHERS) TO A NEW HEADER PIPING NETWORK; AND EXTEND NEW STAGE 1 AIR/FORCEMAIN PIPING AND EQUIP THE 17 NEW VERTICAL WELLS WITH DEWATERING PUMPS.
  - LFG, AIR, AND FORCEMAIN VALVES TO BE INSTALLED BETWEEN THE QUARRY CELL WALL AND THE EXISTING ACCESS ROAD. ON SITE COA ENGINEER TO SPECIFY EXACT LOCATION OF VALVES.
  - NEW 8" SOUTHEASTERN LFG HEADER SHALL REPLACE EXISTING 4" ABOVEGRADE LFG HEADER, THE EXISTING 2" AIR / 4" FORCEMAIN PIPING SHALL BE PRESERVED AND BE ALIGNED WITH THE NEW 8" LFG HEADER PIPING.
  - THE NEW NORTHERN FORCEMAIN SHALL BE CONNECTED TO THE EXISTING SOUTHERN FORCEMAIN UPSTREAM OF LCT-1 SUCH THAT DEWATERING LIQUIDS FROM BOTH FORCEMAINS ARE DISCHARGED INTO LCT-1. EQUIP BOTH FORCEMAINS WITH 4" CHECK VALVES AT CONNECTION.

LEGEND

	EXISTING WELLHEAD		EXISTING HORIZONTAL COLLECTOR
	PROPOSED WELLHEAD		EXISTING 2" AIR LINE
	EXISTING AIR RELEASE VALVE		PROPOSED 2" AIR LINE
	EXISTING ISOLATION VALVE		EXISTING 4" FORCE MAIN
	PROPOSED ISOLATION VALVE		PROPOSED 4" FORCE MAIN
	PROPOSED BLIND FLANGE		EXISTING LFG HEADER
	EXISTING LEACHATE CLEANOUT		PROPOSED LFG HEADER
	EXISTING CONDENSATE PUMP STATION		EXISTING 4" LFG HEADER
	K.O. PROPOSED CONDENSATE KNOCK-OUT TANK		EXISTING 6" LFG HEADER
	EXISTING HORIZONTAL COLLECTOR SUMP		PROPOSED 8" LFG HEADER
	EXISTING LFG LIQUIDS CONTAINMENT TANK		EXISTING 12" LFG HEADER
	ACCESS RISER		PROPOSED 12" LFG HEADER
			BUILDING
			WASTE MANAGEMENT BOUNDARY

