

GZA GeoEnvironmental, Inc.

188 Valley Street, Suite 300

Providence, Rhode Island 02909				Da	te : 7/8,	/19	Job N	lo. 03.0033554.04	
		0 (fax) 401.751.8613			Attention: Mr. Joseph Martella				
		- (- ,							
To:	Rhod	e Island Department of Envir	onmenta	Management	Re	: Liauef	action Facility Proje	ct	
	Office of Waste Management				1	STRAP Perimeter Air Quality Monitoring (AQM)			
	235 Promenade Street				-		erminal Road/ 642 A		
		dence, Rhode Island 02908			-		dence, Rhode Island	uiciis 7	Wellac
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						Site N	emediation File No.	3N-20-	1132
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	S	Shop Drawings	Х	Attached		Chan	ge Order		Samples
		Copy of Letter		Prints		Plans			Specifications
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	ι	Jnder Separate Cover, the fo	llowing Ite	ems:		via:			
_	hipped:								
	X Via	a Email		Courier		Regula	r Mail		Hand Delivered/Picked Up
	ription								
	Ro	M Station 3 Graph ving Air Monitoring Unit Gra mmary Figure	oh						
HESE		ANSMITTED as Checked Bel		mround on Cubin-144	ad		Doguberit Caria	for 1:-	nraval
	_	Approval		proved as Submitt	ea		Resubmit Copies		
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		equested	Re	turned for Correct	ions		Return Corrected		
	_	Review and Comment					PRINTS RETURNE	D AFTE	ER LOAN TO US
	FOR	BIDS DUE:							
_									
Comm	ents:								
Copy	To:	Amy Willoughby - Nationa			Sig	ned:	Sophia Narkiewic		
		William Howard - Nationa	Grid LNG	LLC			Project Manager		

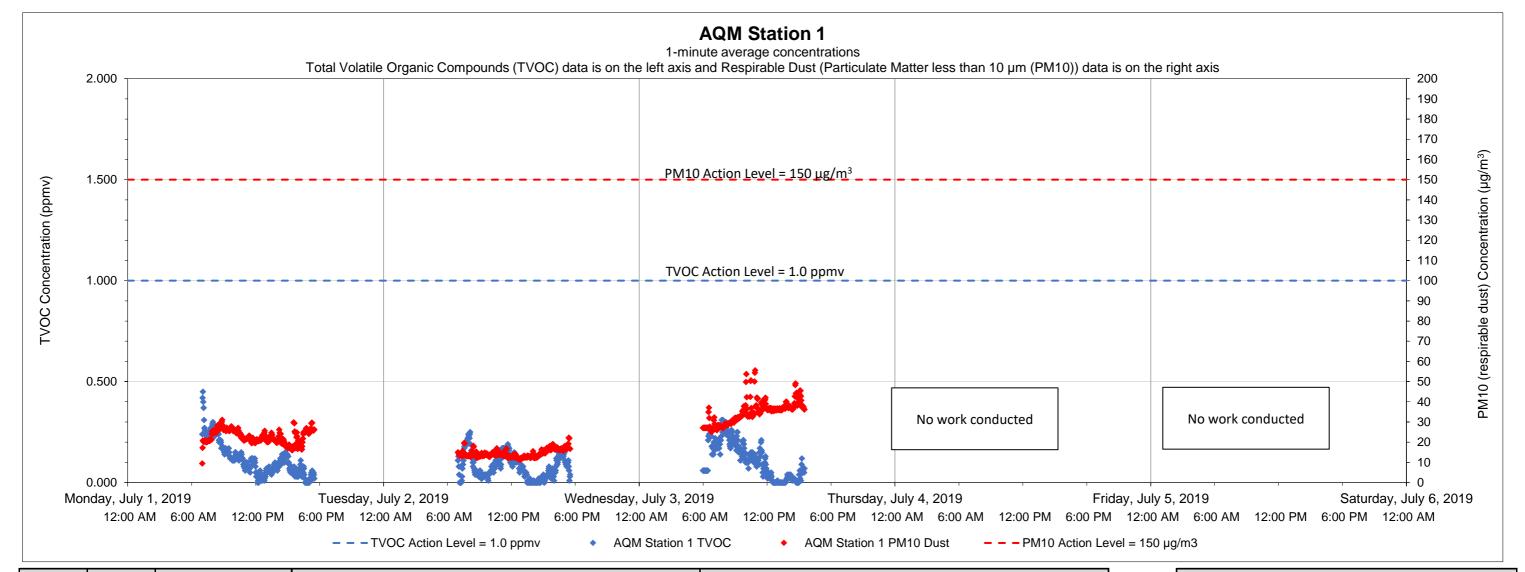
TRANSMITTAL

GZA Job No. 03.0033554.04 7/3/2019

Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None	•			

Equipment Notes	
None	

Data Summary St	Data Summary Statistics			
TVOCs average concentration	0.10	ppm		
TVOCs maximum concentration	0.45	ppm		
TVOCs action level	1	ppm		
PM10 average concentration	23.52	$\mu g/m^3$		
PM10 maximum concentration	55.57	μg/m³		
PM10 action level	150	μg/m³		

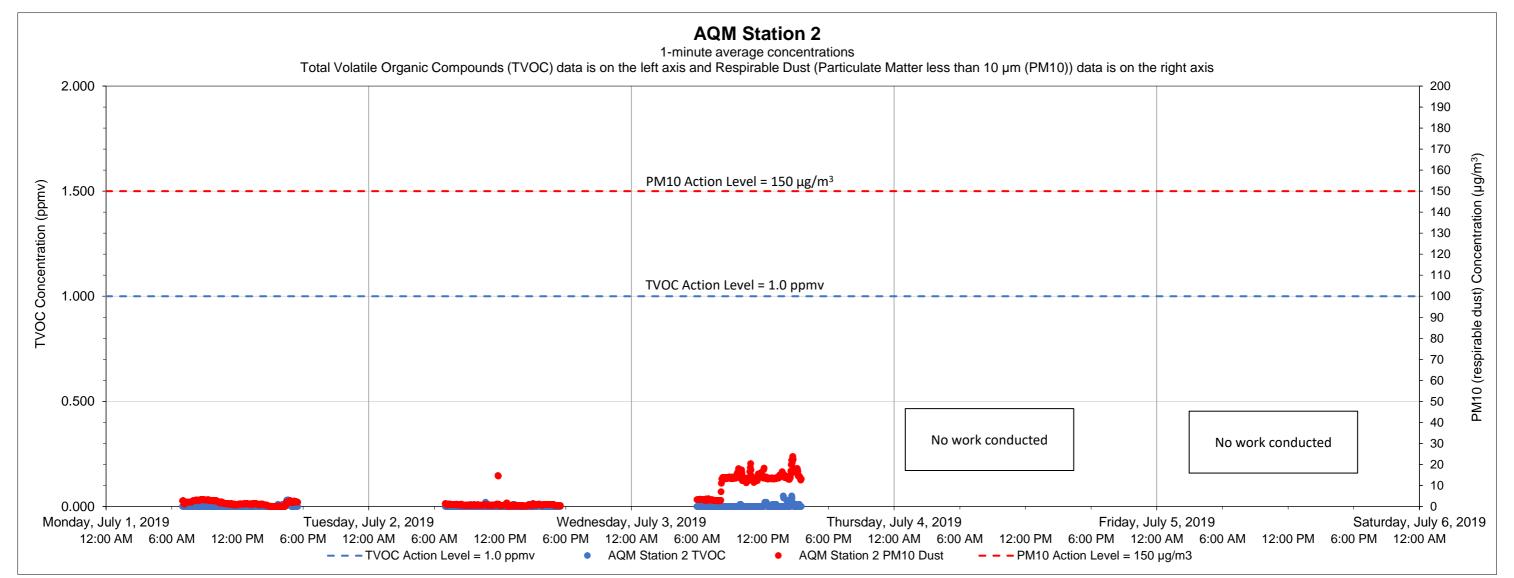
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

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Liquefaction Facility Project -

STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes	
None	

Data Summary St	Data Summary Statistics			
TVOCs average concentration	0.00	ppm		
TVOCs maximum concentration	0.05	ppm		
TVOCs action level	1	ppm		
PM10 average concentration	4.44	$\mu g/m^3$		
PM10 maximum concentration	23.74	$\mu g/m^3$		
PM10 action level	150	μg/m ³		

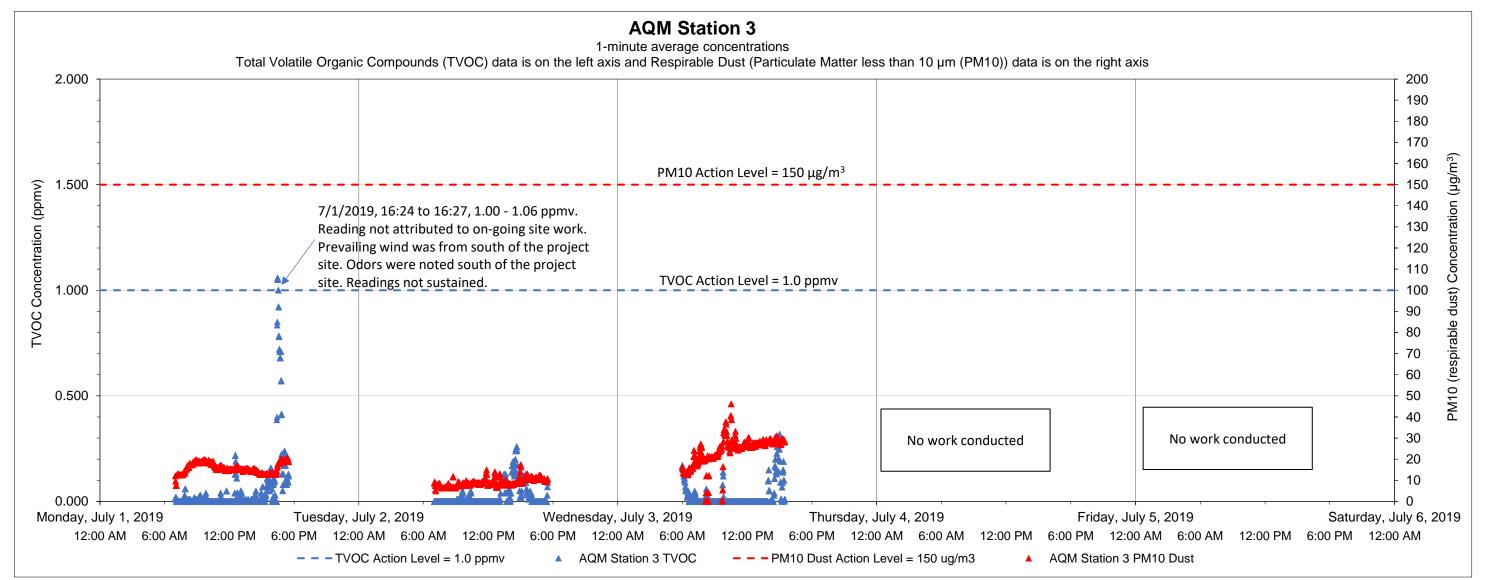
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

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Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None	•	•		

Equipment Notes	
None	

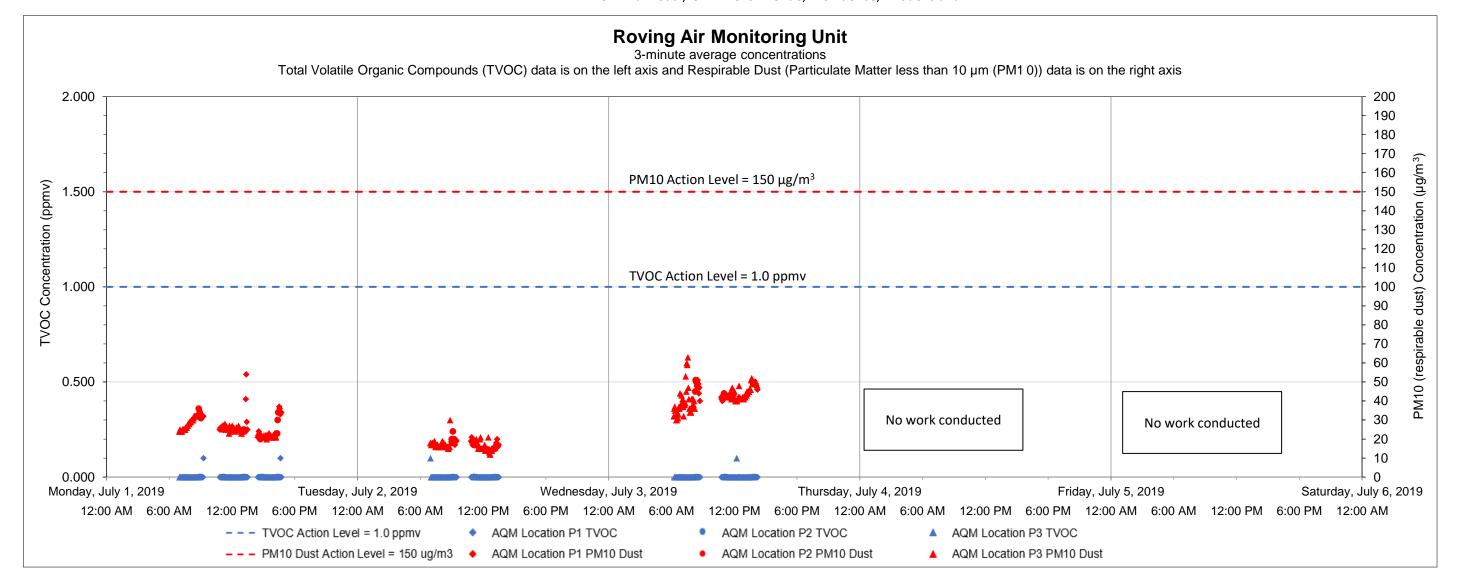
Data Summary Sta	tistics	
TVOCs average concentration	0.04	ppm
TVOCs maximum concentration	1.06	ppm
TVOCs action level	1	ppm
PM10 average concentration	16.13	μg/m³
PM10 maximum concentration		μg/m³
PM10 action level	150	μg/m³

- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

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STRAP Perimeter Air Quality Monitoring (AQM)

121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed	
None					

Equipment Notes	
None	

Data Summary Statistics							
TVOCs average concentration	0.00	ppm					
TVOCs maximum concentration	0.10	ppm					
TVOCs action level	1	ppm					
PM10 average concentration	28.96	μg/m³					
PM10 maximum concentration		μg/m³					
PM10 action level	150	μg/m³					

- 1) Transient readings were conducted over a three minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM location is presented on the attached summary figure. This graph depicts data collected by the roving unit.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.





642 ALLENS AVENUE FORMER MGP SITE

STRAP AREA (LIMITS OF GROUNDWATER

AIR QUALITY MONITORING (AQM)

HANDHELD MONITORING LOCATION

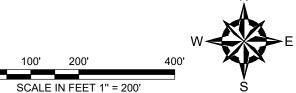
PROJECT WORK SITE

STATION

AND SOIL DISTURBANCE)

REFERENCE NOTES:

- BASE MAP DEVELOPED FROM A GOOGLE
 PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL
 AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED IN
 FEBRUARY 2018.
- 2. SITE BOUNDARIES ARE APPROXIMATE.
- 3. PERIMETER AIR MONITORING PROGRAM
 CONDUCTED AS DESCRIBED IN THE MAY 12, 2017
 SHORT TERM RESPONSE ACTION PLAN (STRAP) AND
 OCTOBER 11, 2017 STRAP ADDENDUM, WHICH WERE
 APPROVED BY RIDEM WITH THE OCTOBER 27, 2017
 STRAP APPROVAL.



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NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND

Summary Figure Week of 7-1-19

	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR:			
				national grid			
	PROJ MGR:	SDN	REVIEWED BY:	MSK	CHECKED B	Y: MSK	FIGURE
	DESIGNED BY:	SDN	DRAWN BY:	LDT	SCALE:	AS NOTED	4
	DATE: PROJECT NO. 33554.04			REVISION NO. 0			
			33554.04			SHEET NO.	