

455 Winding Brook Drive Suite 201 Glastonbury, CT 06033

Fax: (860) 368-5307

Ph: (860) 368-5300

Memorandum

To: Andrew Prophete (National Grid NY)

From: Brian Skelly

Copy to: Richard Dana, R. Scott Deyette (NYSDEC), and Chris Schroer (EA Engineering)

Stephanie Selmer (NYSDOH)

Dave Boram and Thor Helgason (de maximis)

Ted Leissing (National Grid NY)

Shail Pandya (AECOM)

Ronell Marshall (GEI Consultants, Inc.)

Date: March 21, 2012

Regarding: Weekly Community Air Monitoring Report

Clifton Former MGP Site - Operable Unit 2 (OU-2)

March 10, 2012 through March 16, 2012

Dear Andrew:

This report includes a summary of data collected during implementation of the Community Air Monitoring Plan (CAMP) at the Clifton Former MGP Site Operable Unit 2 (OU-2) in Staten Island, New York. Data collected are discussed in relation to remediation activities that occurred between March 10 and March 16, 2012.

No ground intrusive activities were conducted during this reporting period. There were no fifteen-minute exceedances of the Total Volatile Organic Compounds (TVOC), Particulate Matter (PM-10) [dust], or odor action levels associated with site activities during this reporting period. Fifteen-minute averages of TVOC, PM-10, and odor intensity data remained at a Site Condition 1.

Some elevated dust measurements occurred during work hours caused by construction vehicle and generator exhaust onsite that exceeded the fifteen-minute action level for Particulate Matter (PM-10) [dust] data. GEI informed the construction manager and reminded the team that whenever possible, construction equipment should be parked away from air monitoring stations. After the equipment was relocated, concentrations of PM-10 decreased below the alert level and action levels. Since no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. The tables and figures accompanying this report summarize air monitoring results related to the action levels described by the CAMP Work Plan (AECOM, 2011 and GEI, 2012).

Weekly Community Air Monitoring Report Clifton Former MGP Site Operable Unit 2 (OU-2) March 10, 2012 through March 16, 2012 March 21, 2012 Page 2

The following information is summarized in this report:

- Site construction activities
- Daily maximum 15-minute average concentrations of TVOC and PM-10 (dust) at each fixed station
- Elevated concentrations (if any)
- Meteorological data

Site Construction Activities

Construction activities during this reporting period included:

- Site wide mobilization in Operable Unit 1 (OU-1) and OU-2
- Temporary fabric structure construction in OU-2
- Removal of internal components in the warehouse in OU-2
- Wastewater treatment plant construction and electrical connections in OU-1
- Insulation of overhead power lines by Con-Edison
- Construction of temporary perimeter fence and sound attenuation
- Spot welding in OU-2

Data collection

Real-time fixed station monitoring for TVOC and PM_{10} (dust) was performed on the OU-2 site perimeter at six locations (FAM#1 through FAM#6). FAM#3 was located in the northeast corner of the 40 Willow Avenue Property at during the week.

Table 1 summarizes the target concentrations for action levels and Site Conditions described by the CAMP. Table 2 provides a daily summary of maximum fifteen-minute average ambient air concentrations from each station. The daily reports appended to this report depict more detailed and time-specific comparison of upwind and downwind measurements and site activities that is needed to determine the Site Condition.

Upwind and downwind ambient air verification samples were not collected this week since very little ground intrusive activity took place. Ambient air verification sampling will resume the following week. Meteorological data collected at the on-site weather station are included in this report as Figures 1 through 4 which show a directional wind rose for the period and temperature, relative humidity, and wind speed time series for the period.

If you have any questions regarding the information in this report, please contact me.

References

AECOM (2011). Appendix A of CERP Community Air Monitoring Plan (CAMP) Former Manufactured Gas Plant Operable Unit - 2 Remediation. Clifton, New York. August.

Weekly Community Air Monitoring Report Clifton Former MGP Site Operable Unit 2 (OU-2) March 10, 2012 through March 16, 2012 March 21, 2012 Page 3

GEI Consultants, Inc (2012). Community Air Monitoring Plan: Clifton Former Manufactured Gas Plant Site – Operable Unit 2, Borough of Staten Island, New York. February.

New York State Department of Environmental Conservation (2010). DER-10 / Technical Guidance for Site Remediation and Investigation. Washington: Division of Environmental Remediation, December. Appendix 1-A. May.

Table 1 - Action Levels and Site Conditions Community Air Monitoring Program Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

	Alert Level	Action Level	Site Condition 1	Site Condition 2	Site Condition 3	
TVOC (15-minute)	3.7 ppm	5.0 ppm	< 3.7 ppm	≥ 3.7 ppm, < 5.0 ppm	≥ 5.0 ppm	
TVOC (1-minute)	NA	25 ppm	< 25 ppm	NA	≥ 25 ppm	
PM-10 (15-minute)	100 ug/m ³	150 ug/m ³	< 100 ug/m ³	≥ 100 ug/m³, < 150 ug/m³	≥ 150 ug/m ³	
Odor (15-minute)	Odors / Complaints	NA	No odors	NA	3 (n-butanol)	
HCN (15-minute)	Visual Detection	NA	< 0.6 ppm	≥ 0.6 ppm (4-gas meter)	≥ 0.6 ppm (Draeger tube)	
Naphthalene (15-minute)	NA	NA	< 440 ug/m ³	≥ 330 ug/m³, < 440 ug/m³	≥ 440 ug/m ³	

Notes:

ug/m³ - micrograms per cubic meter

ppmv - parts per million by volume

TVOC - total volatile organic compounds

PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter

HCN - hydrogen cyanide

NA - not applicable



¹ Alert Levels are not established by the NYSDOH or NYSDEC and are internally established concentration levels for total volatile organic compounds. Alert Levels are set below the levels established by the NYSDOH so that actions can be taken prior to exceeding a NYSDOH threshold. An Alert Level serves as a screening tool to trigger contingent measures if necessary, to assist in minimizing off-site transport of contaminants during remedial activities

² Response Levels and Action Levels are not defined in Appendix 1A of the New York State Department of Environmental Conservation *DER-10 / Technical Guidance for Site Investigation and Remediation* (NYSDEC, 2010)

Table 2. Daily Maximum 15-Minute Average Concentrations of TVOC and PM-10 Community Air Monitoring Program Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

			TV	ос				PM-10						
Date			(pp	m)					(ug	/m³)				
	FAM-1	FAM-2	FAM-3	FAM-4	FAM-5	FAM-6	FAM-1	FAM-2	FAM-3	FAM-4	FAM-5	FAM-6		
3/10/2012	0.2	0.1	0.2	0.1	0.0	0.0	62	30	41	30	21	18		
3/11/2012	0.1	0.1	0.0	0.0	0.0	0.1	30	30	62	28	37	20		
3/12/2012	0.1	0.1	0.1	0.1	0.0	0.1	51	87	52	83	235	40		
3/13/2012	1.0	1.1	0.3	0.4	0.0	0.1	49	203	46	61	39	53		
3/14/2012	0.7	0.1	0.1	0.1	0.0	0.1	44	56	58	60	40	25		
3/15/2012	0.0	0.1	0.1	0.1	0.0	0.0	44	43	47	287	44	60		
3/16/2012	0.3	0.1	0.1	0.4	0.0	0.0	110	98	107	92	104	82		
Average	0.3	0.2	0.1	0.2	0.0	0.1	56	78	59	92	74	43		
Maximum	1.0	1.1	0.3	0.4	0.0	0.1	110	203	107	287	235	82		

Notes:

FAM - fixed air monitoring station location

ug/m³ - micrograms per cubic meter

ppmv - parts per million by volume

TVOC - total volatile organic compounds

PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter



Figures 1-4 Meteorological Data Weekly Community Air Monitoring Report Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

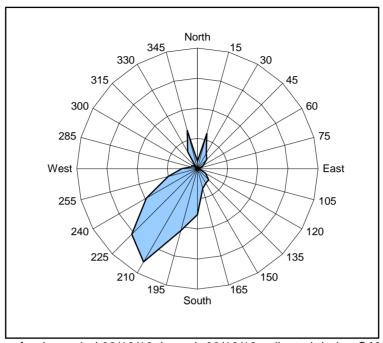


Figure 1. Wind rose for the period 03/10/12 through 03/16/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Wind direction data used to create the wind rose were calculated from 15-minute averages.

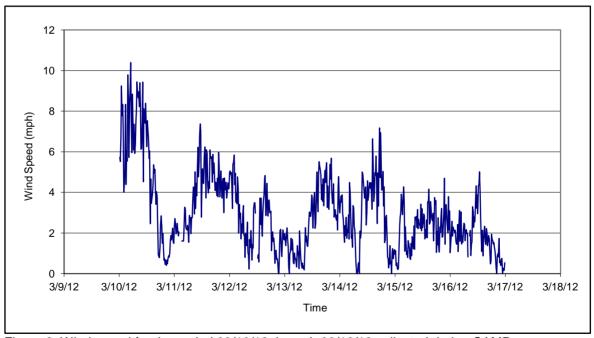


Figure 2. Wind speed for the period 03/10/12 through 03/16/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

Figures 1-4
Meteorological Data
Weekly Community Air Monitoring Report
Clifton Former MGP Site Operable Unit 2
Borough of Staten Island, New York

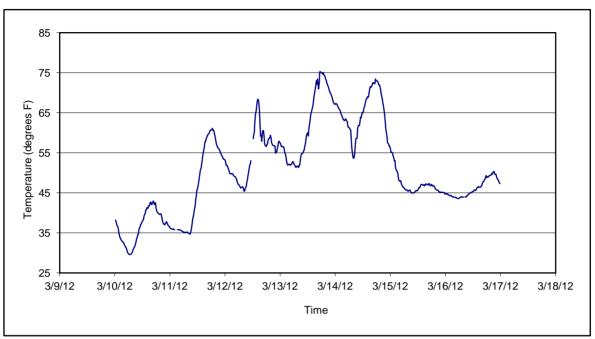


Figure 3. Temperature for the period 03/10/12 through 03/16/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

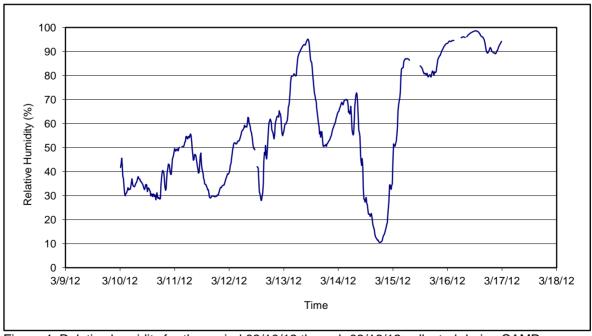


Figure 4. Relative humidity for the period 03/10/12 through 03/16/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

	Syste	m Operation	ns							Gener	ral Observatio	ns	
		ampling Date		/2012	General We								
		m Start Time	conti	nuous	Clear ~40	0° F- ~73	°F						
	Syste	m Stop Time	conti	nuous									
	Total H	rs Monitored	2	24			of Site Activities:						
					Health &	Safety M	leeting			Temporary	/ fabric structur	e construction	
	System	Calibrations		Ok	Continuo	us Air M	onitoring			Spot weldi	ng on OU-2		
	(Time/Status)	0644	-0728	Installation	on of filte	r media in wastewa	ter treatment plant		Construction	on of temporar	y perimeter fence	
					Installation	on of of o	verhead roll out for	temporary fabric structure					
				1					15-M	linute			
	Alert		Start	End	# of	Wind	Upwind/	Upwind	_	d-Upwind	Site	Site Activity During the Period	
Date	Trigger	Station	Time	Time	15-min	Dir.	Downwind	Station(s)		ntration	Condition	(if applicable)	Actions Taken
					Periods			, ,	Min**	Max**		, ,,	
3/12/12	PM-10	FAM#5	5:57	6:11	1	SE	CW/UW	FAM#3	140	189	1	No Site Activities. After hours.	None/no work being performed and GEI personnel not on site yet
				-							 		
-													
comments	:	•			•						•		
lo ground	ntrusive ac	ctivity took pla	ice today	' .									
						PM-10 (1		TVOC (15-min)		TVOC	C (1-min)		
			Α	lert Limit:	•	100 u	g/m ³	3.7 ppm			=		
			Act	tion Limit:		150 u	g/m ³	5.0 ppm		25	ppm		
lotes:													
		e presented b										less than 10 microns in diameter	
** Upwin	d minus dov	wnwind conce	entrations	s are a tin	ne specific c	omparisc	n.		TVOC - to	al volatile c	organic compou	unds	
		nitorign statio		า					NA - not a	plicable			
ug/m³ - n	icrograms	per cubic me	ter						ND - no da	ta available	е	Field Representative:	Ronell Marshall
ppmv - p	arts per mil	lion by volum	е									Date:	
													Page 1 of _1



Family F			m Operation							General Observations						
Total His Monitored 24		Syster	m Start Time	conti	nuous			ons:								
Table No. Station Time		Total H	rs Monitored Calibrations	2	24 Ok	Health & Continuo Installatio	Safety Meeting us Air Monitor on of filter med	g ing ia in wastewater tre	•	Removing Construction	blocks from	n one-story bui orary perimeter	ilding r fence			
13/12 PM-10 FAM#2 8.28 8.33 1 SSE/E DW FAM#3 72 95 1 Construction vehicle and generator exhaust near the station of some content of relocating the equip recommended relocating the equip recommendation vehicles and generator exhaust near the station of some content of relocating the equip recommendation vehicles and generator exhaust near the station of some content of recommendation relocating the equip recommendation vehicles and generator exhaust near the station of some content of recommendation recommendation vehicles and generator exhaust near the station of some content of recommendation recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehicles and generator exhaust near the station of the equip recommendation vehi	Date		Station			15-min		'		Downwind-Upwind Concentration				Actions Taken		
PM-10 FAME2 8:42 8:44 1 SSW/S DW FAME3 67 72 1 Construction vehicle and generator exhaust near the station recommended relocating the equip recommended relocating th	3/13/12	PM-10	FAM#2	8:28	8:33	1	SSE/E	DW	FAM#3	72	95	1	Construction vehicle and generator	Notified construction manager and recommended relocating the equipmer		
13/12 PM-10 FAM#2 8:50 9:01 1 \$\sqrt{\$SSE/SE}\$ CW/DW FAM#3 66 84 1 Construction vehicle and generator exhaust near the station exhaust near the station of exhaust near the station of exhaust near the station exhaust near the station of exhaust near the sta	3/13/12	PM-10	FAM#2	8:42	8:44	1	SSW/S	DW	FAM#3	67	72	1	Construction vehicle and generator	Notified construction manager and recommended relocating the equipmen		
Section Part	3/13/12	PM-10	FAM#2	8:50	9:01	1	S/SSE/SE	CW/DW	FAM#3	66	84	1	Construction vehicle and generator	Notified construction manager and recommended relocating the equipmer		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm	3/13/12	PM-10	FAM#2	9:57	10:23	2		DW	FAM#3	61	168	1*	Construction vehicle and generator	Notified construction manager and recommended relocating the equipmen		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														_		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm																
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm	mmente	<u> </u>		<u> </u>												
PM-10 (15-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm es: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). Upwind minus downwind concentrations are a time specific comparison. AM - Fixed Air Monitorign station location g/m³ - micrograms per cubic meter g/m³ - micrograms per cubic meter who - parts per million by volume PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: Ronell Marshall pate: 3/13/2012	ground i	ntrusive ac														
Alert Limit: 100 ug/m³ 3.7 ppm - 25 ppm es: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). Upwind minus downwind concentrations are a time specific comparison. AM - Fixed Air Monitorign station location g/m³ - micrograms per cubic meter g/m³ - micrograms per cubic meter mw - parts per million by volume A lert Limit: 100 ug/m³ - 5.0 ppm - 25 ppm - PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available ND - no data available Date: 3/13/2012	ince no g	round intru	ısive activitie	s were co	onducted	during this r					TVOC	? (1-min)				
es: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). Upwind minus downwind concentrations are a time specific comparison. AM - Fixed Air Monitorign station location g/m³ - micrograms per cubic meter pmv - parts per million by volume PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: Ronell Marshall 3/13/2012				А	lert Limit:	·	100 ug/m	1 ³	, ,		1,400	- (1=11111 <i>)</i>				
Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable g/m³ - micrograms per cubic meter ND - no data available ND - no data available Date: 3/13/2012				Ac	tion Limit	:	150 ug/m	า้	5.0 ppm		25	5 ppm				
	** Upwind FAM - Fix ug/m³ - m	I minus dov ced Air Mor iicrograms	wnwind conce nitorign statio per cubic me	entrations on location eter	s are a tir					TVOC - to	tal volatile o pplicable	organic compo	unds Field Representative:			
	ppmv - pa	arts per mill	lion by volum	ne									Date:	3/13/2012 Page 1 of		



Trigger Time Time Periods Dir. Downwind Station(s) Concentration Condition (if applicable)	Actions Taken o Exceedances
Date Alert Trigger Station Start Time Time Find Time Periods Wind Dir. Downwind Station(s) Downwind Station(s) Station(s) Downwind Site Concentration Min** Max**	
No ground intrusive activity.	o Exceedances
Comments: No ground intrusive activity took place today.	
PM-10 (15-min) TVOC (15-min) TVOC (1-min)	
Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm	
Notes: * Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). ** Upwind minus downwind concentrations are a time specific comparison. FAM - Fixed Air Monitorign station location ug/m³ - micrograms per cubic meter PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: R	Ronell Marshall
ppmv - parts per million by volume Date:	3/14/2012 Page 1 of <u>1</u>



	Syste	m Operation	าร							Gener	ral Observation	ns	
		mpling Date		/2012	General We	eather C	onditions:						
		n Start Time		nuous	Clear ~41								
		m Stop Time		nuous									
		s Monitored		24	General De	scription	of Site Activities:						
	rotarrii	o monitor ou	-	• •	Health &				Removal o	f fence fah	ric OLL-2		
	Systom	Calibrations	,)k	Continuo				Construction				
		Fime/Status)		-0745			story building				attenuatoins		
	(1	i irrie/Status)	0710	-0745	Spot weld							ant plant	
					Spot were	ung in C	0-2		mstallation	or power to	o Water treatme	ent plant	
					4.4				15-M	inute			
Date	Alert	Ctation	Start	End	# of	Wind	Upwind/	Upwind	Downwin	d-Upwind	Site	Site Activity During the Period	Actions Taken
Date	Trigger	Station	Time	Time	15-min Periods	Dir.	Downwind	Station(s)	Conce	ntration	Condition	(if applicable)	Actions Taken
					Perious				Min**	Max**			
3/15/12	PM-10	FAM#4	13:11	13:27	1	UW	ESE	FAM#3	161	274	1*	No ground intrusive site activity.	Notified construction manager and continued monitoring
											 		
											 		
											+ +		
											+ +		
											 		
	1					ļ					+		_
-											+ +		
Comments	: :			<u> </u>	1		<u> </u>		!		 		
		tivity took pla	ace today										
					during this re	eporting	period, PM-10 rema	nined at a Site Condition 1.					
						PM-10 (1	5-min)	TVOC (15-min)		TVOC	C (1-min)		
			Α	lert Limit:		100 u		3.7 ppm			-		
			Act	tion Limit:		150 u	g/m ³	5.0 ppm		25	5 ppm		
Notes:													
* Wind di	rections are	e presented b	y octant	(i.e. N, N	E, E, SE, S,	SW, W,	NW).		PM-10 - pa	rticulate m	atter (i.e. dust)	less than 10 microns in diameter	
** Upwind	d minus dov	vnwind conce	entrations	are a tin	ne specific co	ompariso	n.		TVOC - tot	al volatile d	organic compou	inds	
		nitorign statio			•	•			NA - not a				
		per cubic me							ND - no da		Э	Field Representative:	Ronell Marshall
_	-	ion by volum										Date:	3/15/2012
	•	-										-	Page 1 of _1_



Fig. 10 FAM#1 16:22 17:30 5		Syste	m Operation								Gener	ral Observation	ns	
System Calibrations Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous Membration Conti														
Total Hrs Monitored 24 September System Calibration System Cal														
Health & Sarlety Meeting Feeders														
System Calibrations		· ·												
Pre-demo in one-story building Solitory										Removal o	f fence fab	ric OU-2		
Part Solid				C)k							•		
Date Alert Tringer Station Start Find Find Trine Tri		(٦	Time/Status)							Installation	of sound a	attenuatoins		
Date Alect Alect Tigger Station State Tigger Tigge						Spot weld	ding in O	U-2		Installation	of power to	o Water treatme	ent plant	
Date Tigger Station Title End 15-min Time Frod Station Time Frod Station Time Frod Station Station Time Frod Station S						# of				15-N	linute			
Figure F	Data	Alert	Station	Start	End		Wind	Upwind/	Upwind	Downwin	d-Upwind	Site	Site Activity During the Period	Actions Takon
18/2012 PM-10 FAM#1 14:54 15:20 2 -	Date	Trigger	Station	Time	Time		Dir.	Downwind	Station(s)	Conce	ntration	Condition	(if applicable)	Actions raken
16/2012 PW-10 PAM#1 16.20 17.30 5 UW/DW/CW NA 100 110 1 Environmental Conditions - Fog Notified construction manager 16/2012 PM-10 FAM#3 16.16 17.24 5 5 UW/DW/CW NA 100 107 1 No ground intrusive activity. Paming activity Pamin						1 Crious				Min**	Max**			
16/2012 PM-10 FAM#8 16-26 17-24 5 - CW/DW NA 100 107 1 Environmental Conditions - Fog Notified construction manager	3/16/2012	PM-10	FAM#1	14:54	15:20	2	-	UW/CW	NA	100	107	1*		Notified construction manager
16/2012 PNP-10 PAWINS 10-10 17-24 5 - CW/DW NA 100 107 1 Environmental Conditions - Fog Notified construction manager	3/16/2012	PM-10	FAM#1	16:22	17:30	5	-	UW/DW/CW	NA	100	110	1*		Notified construction manager
FAM	3/16/2012	PM-10	FAM#3	16:16	17:24	5	-	CW/DW	NA	100	107	1*		Notified construction manager
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm	3/16/2012	PM-10	FAM#5	16:21	17:24	5	-	DW/CW/UW	NA	98	104	1*		Notified construction manager
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm												 		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm												+		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm												 		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm												1		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm												.		
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														
ground intrusive activity took place today. Ince no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm														
rice no ground intrusive activities were conducted during this reporting period, PM-10 remained at a Site Condition 1. PM-10 (15-min) TVOC (15-min) TVOC (1-min) Alert Limit:	Comments:							L		•		<u>. </u>		
PM-10 (15-min) Alert Limit: 100 ug/m³ 3.7 ppm - Action Limit: 150 ug/m³ 5.0 ppm 25 ppm tes: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). *Upwind minus downwind concentrations are a time specific comparison. *Upwind minus downwind concentrations are a time specific comparison. *AM - Fixed Air Monitorign station location														
Alert Limit: 100 ug/m³ 3.7 ppm - 25 ppm tes: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). * Upwind minus downwind concentrations are a time specific comparison. FAM - Fixed Air Monitorign station location 1g/m³ - micrograms per cubic meter 1g/m³ - micrograms per cubic meter 1g/m³ - micrograms per cubic meter 1g/m³ - parts per million by volume Alert Limit: 100 ug/m³ - 3.7 ppm 5.0 ppm 25 ppm - PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: Ronell Marshall 3/16/2012	Since no g	round intru	sive activities	s were co	onducted									
Action Limit: 150 ug/m³ 5.0 ppm 25 ppm tes: Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). * Upwind minus downwind concentrations are a time specific comparison. FAM - Fixed Air Monitorign station location				_					•		TVOC	ز (1-min)		
Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). * Upwind minus downwind concentrations are a time specific comparison. FAM - Fixed Air Monitorign station location Ig/m³ - micrograms per cubic meter Powrv - parts per million by volume PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: Ronell Marshall 3/16/2012											0.5	- •		
Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW). PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds TVOC - total volatile organic compounds NA - not applicable ND - no data available Pinnv - parts per million by volume PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter TVOC - total volatile organic compounds NA - not applicable ND - no data available Pinnv - parts per million by volume				Act	ion Limit:		150 U	y/111	5.0 ppm		25	ppm		
* Upwind minus downwind concentrations are a time specific comparison. TVOC - total volatile organic compounds NA - not applicable ND - no data available Field Representative: Ronell Marshall pmv - parts per million by volume	lotes:													
AM - Fixed Air Monitorign station location NA - not applicable NB - not applicable ND - no data available ND - no data available Powr - parts per million by volume NA - not applicable ND - no data available Field Representative: Ronell Marshall 3/16/2012														
g/m³ - micrograms per cubic meter ND - no data available Field Representative: Ronell Marshall ppmv - parts per million by volume 3/16/2012						ne specific co	ompariso	n.				organic compou	inds	
ppmv - parts per million by volume Date: 3/16/2012					1								5.115	5 " "
	-									ND - no da	ta available	Э	·	
	ppmv - pa	rts per mill	ion by volum	е									Date: _	3/16/2012 Page 1 of _

