

December 17, 2009 File #: 2282-0096-09-0088

Mr. Steven Scharf
New York State Department of Environmental Conversation
Division of Environmental Remediation
Remedial Action, Bureau A
625 Broadway
Albany, NY 12233-7015

SUBJECT: US NAVY CONTRACT NO. N62472-99-D-0032

CONTRACT TASK ORDER NO. 96

GM-38 GROUNDWATER REMEDIATION AT NWIRP BETHPAGE, NY

MONTHLY REPORT NO. 3 ON GROUNDWATER AND AIR DISCHARGE FOR

DER SITE # 1-01-001

Dear Mr. Scharf:

In accordance with groundwater treatment system operational requirements for DER Site # 1-01-001, Tetra Tech EC, Inc. (TtEC) on behalf of the United State Department of the Navy provides this monthly report of the groundwater and air discharge results for the GM-38 system. The enclosed data is for the third month of treatment system operations from November 7, 2009 thru December 4, 2009. Continuous plant operations began on September 14, 2009. The SPDES discharge criteria and air permit equivalent permit with application are also included for your reference as Attachments 2 and 3, respectively.

Please do not hesitate contact me with any questions at office phone # 215-702-4099 or via email stavros.patselas@tetratech.com.

Sincerely,

TtEC Project Manager

Attachments:

- Attachment 1 Groundwater and Air Sampling Results for Month #3 of Operations
- Attachment 2 NYSDEC memorandum dated June 6, 2008 with Effluent Limitations and Monitoring Requirements
- Attachment 3 NYSDEC letter dated July 24, 2009 for Air Permit Equivalent Approval

cc: Jean Occidental, NYSDEC Division of Water
William Spitz, NYSDEC – Region 1 Water Engineer
Gerard Ennis, Nassau County Department of Public Works
Richard Pfaender, Town of Oyster Bay
Lora Fly, Navy Mid-Atlantic RPM
GM-38 Project Site File
CTO 96 File



Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

SPDES Parameters	Daily Maximum	Units	We	eek 1	We	eek 2	We	ek 3	We	ek 4
Process Stream			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Week Ending Date			11/2	13/09	11/2	20/09	11/27/09		12/4/09	
Sampling Date			11/1	11/09	11/2	18/09	11/2	27/09	12/	2/09
Average Flow Rate	1100	GPM		745		748		737		766
Total Flow		gallons		7,509,600		7,539,840		7,428,960		7,721,280
pH (range)	5.5 – 8.5	SU	4.6-5.8	6.2-7.1	4.4 - 5.7	6.7-6.9	4.4 - 4.7	6.8 - 8.1	5.2	6.7 - 8.0
1,1-Dichloroethane	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	5	μg/l	150	0.28 J	150	ND	160	ND	120	ND
trans 1,2-Dichloroethene	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	μg/l	190	0.29 J	220	ND	120	ND	130	ND
1,1,1-Trichloroethane	5	μg/l	ND	ND	4.4 J	ND	ND	ND	ND	ND
Trichloroethene	5	μg/l	480	0.46 J	660	0.24 J	450	ND	430	ND
Vinyl chloride	2	μg/l	33 J	ND	30	ND	24 J	ND	24 J	ND
Mercury	0.25	μg/l	ND	ND	ND	ND	ND	ND	ND	ND

J – Estimated result less than reporting limit.

ND – Not detected

NR – Not recorded

Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

DAR Parameters	SGC	Units	W	eek 1	W	eek 2	W	eek 3	W	eek 4
Process Stream			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Week Ending Date			11.	/13/09	11/	/20/09	11/27/09		12/4/09	
Sampling Date			11.	/11/09	11/	16/09	11/	23/09	11/	30/09
Average Flow Rate		CFM		8,602		8,572		8,395		8,519
Total Flow		ft ³		86,708,160		86,405,760		84,621,600		85,871,520
Total Flow		m^3		2,455,348		2,446,785		2,396,262		2,431,657
Trichloroethene	14000	$\mu g/m^3$	4700	ND	5300	2.5	5200	5	6900	3.8
Vinyl Chloride	180000	μg/m ³	220	12.5	270	15.5	240	15	260	18
trans 1,2-Dichloroethene	-	$\mu g/m^3$	16	ND	20	ND	20	ND	20	ND
cis 1,2-Dichloroethene		$\mu g/m^3$	1400	ND	1600	ND	1500	ND	1700	ND
1,2-Dichloroethane	-	μg/m ³	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		μg/m ³		ND	ND	ND	ND	ND	ND	ND
Xylene	4300	$\mu g/m^3$	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	μg/m ³	ND	ND	ND	ND	ND	ND	ND	ND

ND – Not detected

SGC – Short-term Guideline Concentration

Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

DAR Parameters	Discharge	Units	Week 1	Week 2	Week 3	Week 4
	Limit					
	Con	trolled Emi	ssions from Exha	ust Stack		
Week Ending Date			11/13/09	11/20/09	11/27/09	12/4/09
Sampling Date			11/11/09	11/16/09	11/23/09	11/30/09
Average Flow Rate		CFM	8,602	8,572	8,395	8,519
Total Flow		ft ³	86,708,160	86,405,760	84,621,600	85,871,520
Total Flow		m^3	2,455,348	2,446,785	2,396,262	2,431,657
Trichloroethene	0.09	lb/hr	0.0	0.000080	0.000157	0.000121
Vinyl Chloride	0.01	lb/hr	0.000403	0.000498	0.000472	0.000574
1,2-Dichloroethene	0.03	lb/hr	0.0	0.0	0.0	0.0
1,2-Dichloroethane	BRT	lb/hr	0.0	0.0	0.0	0.0
Toluene	BRT	lb/hr	0.0	0.0	0.0	0.0
Xylene	BRT	lb/hr	0.0	0.0	0.0	0.0
1,1,2-Trichloroethane	BRT	lb/hr	0.0	0.0	0.0	0.0

BRT – Below reporting thresholds

JUN



Bureau of Water Permits, 4th Floor 625 Broadway, Albany, New York 12233-3505 Phone: (518) 402-8111 • FAX: (518) 402-9029

Website: www.dec.state.ny.us



MEMORANDUM

TO:

Steven Scharf, DER

FROM:

Jean Occidental, DOW, Bureau of Water Permits

SUBJECT:

Naval Weapons Industrial Reserve Plant (NWIRP); DER Site # 1-01-001

DRAINAGE BASIN: na

DATE:

June 6, 2008

In response to your request and the permittee's SPDES Permit Equivalent Application dated April 27, 2008, attached is the effluent criteria for the above noted groundwater remediation discharge.

The Division of Water does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. The Division of Environmental Remediation will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. Additional Condition (1) identifies the contact to send all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of these discharges and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at (518) 402-8116.

Attachment

cc: (w/att)

RWE, Region 1

C. Webber

BWP Permit Coordinator

Naval Weapons Industrial Reserve Plant

Jun 09 08 02:52p

DER site # 1-01-001 Page 1 of 2

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period begin	ing: April 1, 2009
and lasting until:	April 1, 2014
the discharges from the	entment facility to Groundwater shall be limited and monitored by the operator

the discharges from the treatment facility to Groundwater shall be limited and monitored by the operator as specified below:

	Limite	utions		Minimum Monitoring Requirements		
Outfall and Parameters	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type	
Treated Groundwater Remediation	n Discharge from:	Recovery Wells 1	, 2, and 3			
Flow	Monitor	1100	GPM	Continuous	Recorder	
pH (range)	5.5 -	8.5	SU Weekly		Grab	
1,1-Dichloroethane	NA	5	µg/l	Monthly 1	Grab	
1,2-Dichloroethane	NA	0.6	µg/l	Monthly 1	Grab	
1,1-Dichloroethene	NA	5	µg/l	Monthly 1	Grab	
cis-1,2-Dichloroethene	NA	5	µg/l	Monthly 1	Grab	
trans-1,2-Dichloroethene	NA	5	µg/l	Monthly 1	Grab	
Tetrachloroethene	NA	5	µg/l	Monthly 1	Grab	
1,1,1-Trichloroethane	NA	5	µg/l	Monthly ¹	Grab	
Trichloroethene	NA	5	µg/l	Monthly ¹	Grab	
Vinyl chloride	NA	2	µg/l	Monthly 1	Grab	
Mercury	NA	0.25	hâ∖l	Monthly ¹	Grab	

Footnotes:

(1) The minimum measurement frequency shall be monthly following a period of 24 consecutive weekly sampling events showing no exceedances of the stated discharge limitations.

Naval Weapons Industrial Reserve Plant

Bura

DER site # 1-01-001 Page 1 of 2

Additional Conditions:

(1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Steven Scharf
Division of Environmental Remediation
NYSDEC, 625 Broadway
Albany, NY 12233-7015
Phone: (518) 402-9620

With a copy sent to:

Regional Water Engineer NYSDEC - Region 1 Building 40, SUNY Campus Stony Brook, New York 11790-2356 Phone: (631) 444-0354

- (2) Only site generated wastewater is authorized for treatment and discharge.
- Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
- (4) Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
- (5) This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

New York State Department of Environmental Conservation

Division of Environmental Remediation Bureau of Remedial Action A

625 Broadway, 11th Floor

Albany, New York 12233-7015

Phone: (518) 402-9625 • Fax: (518) 402-9022

Website: www.dec.state.ny.us



July 24, 2009

Lora Fly, Project Manager Naval Facilities Engineering Command-Midlant 9742 Maryland Avenue . Norfolk, VA 23511-3095

RE: Naval Weapons Industrial Research Plant(NWIRP) Site-Bethpage, NYSDEC No. 1-30-003B. Grumman Aerospace Site, NYSDEC Site No. 1-30-003A

Dear Ms. Fly:

Tetra Tech FW, on behalf of the Department of the Navy (Navy), has submitted the enclosed New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources (DAR) Air Permit Application as a permit equivalent. This DAR Air permit equivalent is for the air stripper discharge at the GM 38 Area groundwater remediation system, Near Broadway and North Herman Avenue in Bethpage, NY. The NYSDEC Division of Environmental Remediation (DER) has reviewed the permit equivalent and, by means of this letter approves the GM 38 Area remedy air discharge for immediate operation.

The GM 38 Area remedial system utilizes the best available control technology (BACT) with activated carbon followed by potassium permanganate impregnated xeolite resin. The air discharge will be periodically monitored at start up and will be added for routine monitoring in the operation, maintenance and monitoring (OMM) plan, to be submitted shortly for Departmental review.

If you have any questions, please contact me at your earliest convenience at (518)402-9620.

Sincerely,

Steven M. Scharf, P.E.

Project Engineer

Division of Environmental Remediation

Bureau of Remedial Action A

Enclosure ec/w/enc:

J. Swartwout/S. Scharf/File

W. Parish, Region 1 NYSDEC

A. J. Shah, region 1 NYSDEC

S. Patselos, Tetra Tech FW

J. Cofman, Northrop Grumman]

edocs: Region 1, Nassau, Oyster Bay (T): Grumman Aerospace 130003A-OU2-OMM and NWIRP Bethpage 130003B-OU2-OMM



DEC ID A	APPLICATION ID			OFFICE USE ONLY
	-	/		
Section	l - Certificatio	on		
Title \	V Certification			
I certify under penalty of law that this document and all attachments were prepentive qualified personnel properly gather and evaluate the information submitting information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the information submitting false information, including the possibility of fines and imprisonment.	ted. Based on my inquation is, true, accurate	uiry of the perso and complete	on or persons d	firectly responsible for gathering the
Responsible Official		Ti	itle	
Signature		D	ate	1 1
State Fac	cility Certificatio	n		
I certify that this facility will be operated in conformance with all prov	visions of existing re	gulations.		
Responsible Official		Ti	itle	
Signature		Di	ate	<u> </u>
Section II - Ider	ntification Inf	ormation		
Title ∨ Facility Permit N/A □ New □ Significant Modification □ Administrative A □ Renewal □ Minor Modification General Permit Title ■ Application involves construction of new facility	le:	G	tate Facility Pe New eneral Permit	☐ Modification
A Application involves constitution of new issuing	чи гурричи	I III VII VII VII VIII VIII VIII VIII	Situation 5	EW CITROSION WITH (5)
0	wner/Firm			
Name US Navy/NAVFAC Midlant				
Street Address 9742 Maryland Ave, Bldg Z-144				
City Norfolk	State VA	С	ountry US	S Zip 23511-3095
Owner Classification 対 Federal ☐ Corporation/Partnership	☐ State ☐ Individual	☐ Municip	al	Taxpayer ID
	Facility			☐ Confidential
Name Naval Weapons Industrial Reserve Plant (N		Area		G Oblinication.
	IVVII () O O.	Aica		
Location Address <u>Bethpage</u> □ City / ☑ Town / □ Village Oyster Bay, New York				Zip 11714
	ct Description			☐ Continuation Sheet(s)
	J. B. G. G. I.			
Air stripping of groundwater to remove VOCs		_		_
Owner/Firm Co	ontact Mailing A	ddress		
Name (Last, First, Middle Initial) Fly, Lora			Phone	No. (757) 444-0781
Affiliation Department of the Navy	Title Remedia	IPM	Fax No	.()
Street Address 9742 Maryland Ave. Bldg Z-144				
City Norfolk	State VA	Country	US	Zip 23511-3095
Facility Conf	tact Mailing Add	dress		
Name (Last, First, Middle Initial) Same			Phone	No. ()
Affiliation	Title		Fax No	. ()
Street Address				
City	State	Country		Zip

New York State Department of Environmental Conservation



Air Pe	ermit A	oplication	on									
	DECI	D	$\overline{}$									
<u> </u>	<u> </u>	.l. <u>.ll</u>										
	Section III - Facility Information Classification											
□ Host	oital [) Residentia	al D.Edu	ıcational/lr			mmercial	Žίnα	dustrial	□ Utili	tv	
3 1100p	□ Hospital □ Residential □ Educational/Institutional □ Commercial ☑ Industrial □ Utility											
	Affected States (Title V Only) N/A											
□ Vermont □ Massachusetts □ Rhode Island □ Pennsylvania Tribal Land: □ New Hampshire □ Connecticut □ New Jersey □ Ohio Tribal Land:												
		_								-		
	SIC Codes											
9999												
	Facility Description Continuation Sheet(s)											
G	roundwate	r Remedia	ation by Air S			-	se GAC	for emiss	ion contr	ol	`. '	
				ompliance	e Statement	s (Title V (Only) i	V/A				
••	-		application the				e requireme	ents: 🔾 YES		-1:4: (4	h = 100	
box m	nust be check	ed), the nonco	the facility are no emplying units m	ıst be identif	ied in the "Com	pliance Plan"	block on pa	ge 8 of this fo	rm along w	ith the com	pliance	
follow	ring:		l emission units a									
! '	those un	its referenced	e to be operated in the complian	ce plan porti	on of Section I	of this applic	cation.					
			subject to any a nents on a timely		uirements that	will become e	effective du	iring the term	of the pern	nit, this fac	cility will	
٦	•		on reports will be nethod used to d		•	ear. Each rep	port will cen	tify compliand	ce status wi	th respect	to each	
	_											
				<u> </u>	cable Fede			N/A		tinuation		
Title	Type CERCL		substantive	Section	Sub Division	Paragra	aph Su	b Paragraph	Clause	Sub	Clause	
	CLINCL	.A ail 3	Substantive	requirer	iciics							
				_								

		☐ Continuation Sheet(s							
Title	Туре	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause



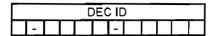
		EC) IC			
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Section III - Facility Information (continued)

			Fac	ility Complia	nce Certific	ation N/A	<u> </u>	ontinuati	on Sheet(s)	
_				Rule (Citation					
Title	Туре	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause	
Applicable	Federal Requirement	C	CA	AS No.		Cor	ntaminant Name			
State Only	Requirement	Capping			<u> </u>					
				Monitoring	Information					
☐ Ambient	Air Monitoring	☐ Work P	ractice Inv	olving Specifi	Operations	□ Reco	rd Keeping/Maint	enance F	Procedures	
				Desc	ription					
			_							
Work Prac	ctice		Process	Material			Reference T	est Meth	nd .	
Туре	Code			Description			. Reference i	———		
		Para	<u>meter</u>				Manufacturer Na	ame/Mod	el No	
	Code			Description	_					
	Limit					Limi	t Units			
	Upper	Lo	wer	Code	Code Description					
	Averaging Method			Monitoring I	toring Frequency		Reporting Requirements			
Code	Descript	ion	Code		Description	Co	de	Descripti	ion	

	Facility Emissions Summary		☐ Continu	ation Sheet(s)
0101/	Control No.	PTE		Actual
CAS No.	Contaminant Name	(lbs/yr)	Range Code	(lbs/yr)
NY075 - 00 - 5	PM-10			
NY075 - 00 - 0	PARTICULATES			
7446 - 09 - 5	SULFUR DIOXIDE			
NY210 - 00 - 0	OXIDES OF NITROGEN			
630 - 08 - 0	CARBON MONOXIDE			
7439 - 92 - 1	LEAD			
NY998 - 00 - 0	VOC	117		
NY100 - 00 - 0	НАР	110		
0079 - 01 - 6	Trichloroethylene	99		
00075 - 01 - 4	Vinyl Chloride	3.7		
00540 - 59 - 0	1,2-Dichloroethylene	7.3		

12/21/01





Section IV - Emission Unit Information

Emission Unit Description	☐ Continuation Sheet(s)
EMISSION UNIT 0 - 0 0 E U 1	
Air Stripper AS-1 for groundwater remediation, provided with activated carbon for	emission control.
The emission point is stack 00ST-1. The 2-stage VGAC is followed by a 3	rd vessel containing
a potassium permanganate zeolite media for increased VC capacity.	

	Building		□ Conti	nuation Sheet(s)
Building	Building Name	Length (ft)	Width (ft)	Orientation
BLDG-1	Treatment Plant	75	75	0

			Emission Poir	nt	☐ Cont	inuation Sheet(s)
EMISSION PT.	oos⊤1					
Ground Elev.	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section
(ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)
90	40	15	36	80		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
19	8020			BLDG-1	50	
EMISSION PT.						
Ground Elev.	Height	Height Above	Inside Diameter	Exit Temp.	Cross S	Section
(ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal

				Emission	Sourc	e/Control		☐ Continuation Sheet(s)
Emission	Source	Date of	Date of	Date of		Control Type	Manu	facturer's Name/Model
ID	Type	Construction	Operation	Removal	Code	Description		No
AS-1	I				048	Granular Act. Carbon	Air St	ripping Column
Design		Design Ca	pacity Units			Waste Feed		Waste Type
Capacity	Code		Description		Code	Description	Code	Description
Emission	Source	Date of	Date of	Date of		Control Type	Manu	facturer's Name/Model
ID	Type	Construction	Operation	Removal	Code	Description		No.
Design		Design Ca	pacity Units			Waste Feed		Waste Type
Capacity	Code		Description		Code	Description	Code	Description
								·



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П	-			-		· · · ·	

Section IV - Emission Unit Information (continued)

		Process Ir	nformation		□ Contin	uation Sheet							
EMISSION UNIT 0 - 00	EU1				PROCI	ess PR							
		Descr	ription										
The remedial system	is air strippir	ng, using a pa	acked column	at a ground	water flow ra	te of							
1,100 gpm (plus 100													
the use of 3 vessels,	a 2-stage GA	AC unit, follov	ved by a 3rd	vessel contair	ning a potass	sium							
permanganate impre	gnated zeolit	e for increase	ed VC capaci	ty. Prior to er	ntering the va	por-phase							
GAC adsorption syster	n, the humidity	of the air strip	oper exhaust is	s reduced to ap	proximately	_							
50 percent or less to o													
Air Stripper AS-1:	Existing. Typ	e: Vertical, Cy	lindrical Cons	struction: Alum	iinum								
Packing: 25-foot J	aeger Tripack.	Dimensions:	10.0 ft. Dia x	47 ft. H									
Source Classification	Total T	hruput		Thruput Qu	antity Units								
Code (SCC) Quantity/Hr Quantity/Yr Code Description													
Operating Schedule													
☐ Confidential ☐ Operating Schedule ☐ Operating at Maximum Capacity ☐ Hrs/Day ☐ Days/Yr ☐ Days/Yr													
□ Activity with Insignificant Emissions 24 365 BLDG-1 Main													
Emission Source/Control Identifier(s)													
EMISSION UNIT -					PROC	ESS							
		Descr	ription										
	_												
Source Classification	Total T	hruput		Thruput Qu	antity Units								
Code (SCC)	Quantity/Hr	Quantity/Yr	Code		Description								
		0========	Cabadula		<u> </u>								
☐ Confidential☐ Operating at Maximum C	apacity	Operating Hrs/Day	Days/Yr	Building	Floor/L	ocation							
☐ Activity with Insignificant		rii G/Day	Dayorii										
	Er	mission Source/C	Control Identifier	(s)									



	DEC ID													
Π.	. T	ГΤ	Т	T-1										

Section IV - Emission Unit Information (continued)

Emission	Emission Point		Emission		Emi	ssior	Unit Appl	icable Fe	ederal Requ	irement	s 🗆 Co	ntinuat	ion Sheet(s)
Unit	Point	Process	Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
-													
-													

Emission	Emission	Dun	Emission			ssior	Unit State	e Only R	equirements		□ Co	ntinuat	ion Sheet(s)
Unit	Point	Process	Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-													
-													
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-					·								

				Emissio	n Unit Co	mpliance	e Ce	ertification	_	□ C	ontinuati	on Sheet(s)	
					Rule	Citation							
Title		Гуре	Part	Sub Part	Section	Sub Division	on	Paragraph	Sub Paragi	raph	Clause	Sub Clause	
6	NY	CRR	212										
X App	olicable	Federal R	equiremen		State Only F	Requiremen	nt	☐ Capping					
Emission	Unit	Emission Point	Process	Emission Source	CA	AS No.			Contami	nant Na	ame ·		
0-00El	J1	00ST1	PR1	AS-1	00079 -	01 -	6	Trichlo	roethylene	Э			
	Monitoring Information												
⊠ inte	☐ Continuous Emission Monitoring ☐ Monitoring of Process or Control Device Parameters as Surrogate ☐ Work Practice Involving Specific Operations ☐ Ambient Air Monitoring ☐ Record Keeping/Maintenance Procedures												
	Description												
Monthly	Monthly grab samples analyzed for VOCs from the vapor phase treatment system influent, effluent and two intermediate locations.												
Work Pra	ctice			Process	Material		Peferer	nce Te	est Metho	d			
Туре		Code			Description					100 10	WIGHT	u	
			Pa	rameter					Manufactur	rer Na	me/Mode	l No	
	Code				Description				Wallalactul	01 144	- Inc/Mode		
23			Con	centration	<u> </u>								
		Lim	it					Limit	Units				
Upper Lower Code Description													
	3,125				255	mid	crog	rams per cu	bic meter				
	Avera	ging Metho	d		Monitoring	Frequency			Reportin	ng Red	uiremen	ts	
Code		Descri		Code		Description	n	Cod			Description		
01	ln:	stantaneo	us	05	Mo	nthly		10		Jpon	Reques	t	



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Section IV - Emission Unit Information (continued)

				etern	ninati	on of Non-A	pplica	bility	(Title	V Only) N/	A [Continua	ation S	heet(s)
						Rule	Citatio	1		_		_			
Title	Туре		Part	Sub	Part	Section	Sub Divi	sion	Par	agraph	Sub Pa	ragraph	Clause	Sub	Clause
Emission	n Unit	Emiss	sion Point	Proc	ess	Emission	Source			oplicable Fo			ent		
	<u></u>								U 50	ate Only R	equireme	ent			
			,			Desc	ription	_				_			
													_		
							-		_		_				
						Rule	Citatio	1		_	_				
Title	Туре	<u> </u>	Part	Sub	Part		Sub Divi		Par	agraph	Sub Pa	ragraph	Clause	Sub	Clause
Emission	n Unit	Emiss	sion Point	Proc	ess	Emission	Source			oplicable F			ent		
									□ St	ate Only R	equireme	ent			
						Desc	ription								
				_									_		
				_						_		_			
										_					
					Pr	rocess Emis	sions S	Sumn	nary) Continua	tion S	heet(s)
EMISSI	ION UNIT	0	- 0 O	ΕU	1							F	PROCESS	<u> </u>	R 1
CA	S No.			Contan	ninant N	Name		, 9 T		%	%		ERP		How
		_						Inn	uput	Capture	+	_	(lbs/hr)		mined
0079	<u>- 01 - 6</u>		Trichloroe	thyler	<u>ne</u>		T				9:	5	1.87	02	
	<u> </u>		PTE				_	andar	d		E How	_		ctual	
(lb:	s/hr)		(lbs/yr)		(sta	ndard units)		Jnits			rmined		(lbs/hr)	(lb	s/yr)
0	.09		99							02	<u> </u>				
EMISSI	ON UNIT	0	- 00	ΕU	1						_	F	PROCESS	P	R 1
CA	S No.			Contan	ninant N	Name			6	%	% Conf		ERP		P How rmined
00075	- 01 /	1 1/2	I Chlass	: -1 -		_		Inn	uput	Capture	_	-	(lbs/hr)		
00075	<u>5- 01 - 4</u>	+ Vi	nyl Chlor	iae			T				9	5	0.17	03	,
		1	PTE		, ,		-	andar Jnits	ď	1	E How ermined	\vdash		tual	- h - m\
<u>`</u>	s/hr)		(lbs/yr)		(sta	ndard units)		JIII.3					(lbs/hr)	ai)	s/yr)
0.0			3.7	- 1	1						02	- 	200500	Ιn	
EMISSI	ON UNIT	이	- 0 0	E U	1							-	PROCESS		R 1
CAS	S No.			Contan	ninant N	Name		% Thr	6 uput	% Capture	% Conf	- 1	ERP (lbs/hr)		P How rmined
000540	1 - 50 - 0	1.	2 Dichlor	ooth:	ylong			71110		Suptare	9	-	0.6		02
000540) - <u>59</u> - 0	, L,	2-Dichlor PTE	oetn.	yiene		<u> </u>			D.T.		+		ctual	JZ
/15	c/hr\				/cto	ndard units)	_	andar Jnits	d		E How ermined		(lbs/hr)		s/yr)
	s/hr)	+	(lbs/yr) 7.3		(SIA	nuaru units)	<u> </u>				02		(ווואפעו)	ui)	3/ y i)
0	0.03) _				



DEC ID													
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Section IV - Emission Unit Information (continued)

EMISSION UNIT 0 - 0 0 E U 1	Emiss	ion Unit Emissions	Summary	☐ Continuation Sheet(s)
CAS No.		Contami	nant Name	
00107- 06 - 2	1,2-Dichloroethane			
555 (II. ()	PTE Em	issions	Acti	uai
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
13.4	Below Reporting Th	reshold BRT		
CAS No.		Contami	nant Name	
00108 - 88 - 3	Toluene			
ERP (lbs/yr)	PTE Em	issions	Acti	ual
ERP (IDS/yl)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
72.7	BRT	BRT		
CAS No.		Contami	nant Name	
01330-20 -7	Xylene			
ERP (lbs/yr)	PTE Em	issions	Actu	ual
ERP (IDS/yl)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
77.1	BRT	BRT		
CAS No.		Contami	nant Name	
	1,1,2-Trichloroethan	e		_
ERP (lbs/yr)	PTE Em	issions	Actu	ual
LIXE (IDS/yl)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT .		

					Cc	mpliano	ce Plar	1		Co	ntinuati	on Sheet(s)
For any emis	sion units	s which ar	e <u>notin c</u>	omplian	c <u>e</u> at th	e time of p	ermit ap	plication, the	applica	nt shall comp	lete the	following
Consent Orde	er		Certifie	ed progre	ss rep	orts are to	be subm	nitted every 6	months	beginning_	/	/
Emission		Emission					Applicabl	e Federal Requ	irement			
Unit	Process	Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-												
_	Remedial Measure / Intermediate Milestones									R/I Date Scheduled		
					_							
		_					_					
					_							



		EC) IE)		
-			-			

Section IV - Emission Unit Information (continued)

		uest for Emission Reduction Cre		Continuation Sheet(s)
EMISSION UNIT -				
		Emission Reduction Description		
	Con	taminant Emission Reduction Da		
				uction
Baseline Period/	/	to/	Date	Method
CAS No.		Contaminant Name		(lbs/yr)
CASINO.			Netting	Offset
	<u> </u>			
	<u> </u>		· ·	
	f	acility to Use Future Reduction		10
Name			APPLICATION	ID TO THE TOTAL OF
Location Address			<u> </u>	
☐ City / ☐ Town / ☐ Village		State	Zip	
	U	se of Emission Reduction Credits	<u> </u>	Continuation Sheet(s)
EMISSION UNIT -				
		Proposed Project Description		
	<u> </u>			
	Cor	ntaminant Emissions Increase Da	ita	
CAS No.	Cor	ntaminant Emissions Increase Da		(lbs/yr)
CAS No.	Cor			(lbs/yr)
	Cor	Contaminant Name		(lbs/yr)
		Contaminant Name Statement of Compliance	PEF	
☐ All facilities under the ownership including any compliance certific		Contaminant Name	PEF	
	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance 'firm" are operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A	PEF pplicable requirements and cot Amendments of 1990, or	
All facilities under the ownership including any compliance certific schedule of a consent order.	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance	pplicable requirements and Amendments of 1990, of	
☐ All facilities under the ownership including any compliance certific	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance 'firm" are operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A	PEF pplicable requirements and cot Amendments of 1990, or	
All facilities under the ownership including any compliance certific schedule of a consent order.	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance firm" are operating in compliance with all as under Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and Amendments of 1990, of	
□ All facilities under the ownership including any compliance certific schedule of a consent order. Name Location Address	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance Firm" are operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and act Amendments of 1990, of actility PERMIT ID	
All facilities under the ownership including any compliance certific schedule of a consent order. Name Location Address City / □ Town / □ Village	of this "ownership/ ation requirements Source	Statement of Compliance Statement of Compliance Signature operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and the Amendments of 1990, of acility PERMIT ID Zip ERC	d state regulations or are meeting the
All facilities under the ownership including any compliance certific schedule of a consent order. Name Location Address City / □ Town / □ Village	of this "ownership/ ation requirements	Contaminant Name Statement of Compliance Firm" are operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and cot Amendments of 1990, of acility PERMIT ID Zip	d state regulations or are meeting the
All facilities under the ownership including any compliance certific schedule of a consent order. Name Location Address City / □ Town / □ Village	of this "ownership/ ation requirements Source	Statement of Compliance Statement of Compliance Signature operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and the Amendments of 1990, of acility PERMIT ID Zip ERC	d state regulations or are meeting the
All facilities under the ownership including any compliance certific schedule of a consent order. Name Location Address City / □ Town / □ Village	of this "ownership/ ation requirements Source	Statement of Compliance Statement of Compliance Signature operating in compliance with all a sunder Section 114(a)(3) of the Clean Air A of Emission Reduction Credit - F	pplicable requirements and the Amendments of 1990, of acility PERMIT ID Zip ERC	d state regulations or are meeting the



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Supporting Documentation	
☑ P.E. Certification (form attached)	
☐ List of Exempt Activities (form attached)	
🔯 Plot Plan	
☐ Methods Used to Determine Compliance (form attached)	
🛛 Calculations	
☐ Air Quality Model (/)	
☐ Confidentiality Justification	
☐ Ambient Air Monitoring Plan(/)	
☐ Stack Test Protocols/Reports (/)	
☐ Continuous Emissions Monitoring Plans/QA/QC(/)	
□ MACT Demonstration(/)	
☐ Operational Flexibility: Description of Alternative Operating Scenarios and Protocols	
☐ Title IV: Application/Registration	
☐ ERC Quantification (form attached)	
☐ Use of ERC(s) (form attached)	
☐ Baseline Period Demonstration	
☐ Analysis of Contemporaneous Emission Increase/Decrease	
☐ LAER Demonstration(/)	
☐ BACT Demonstration (/)	
☐ Other Document(s):(/	/)
	<u>/)</u>
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Emission Estimate ATTACHMENT 1

1,100 gpm: max or normal Feed Water Flow

250 m³/hr

1,200 gpm: max or normal Water Flow Including Recycle

273 m³/hr

ug/m³

88

 $4.8 \text{ ug/L} \times 1000 \text{ L/m}^3 \times 250 \text{ m}^3 \text{ water/} 13,623 \text{ m}^3 \text{ air} =$

EXAMPLE EMISSION CALC: Vinyl Chloride

8,000 cfm Air Flow

13,592 m³/hr

50 A.W vol ratio

	Avg	ug/m³	55	9	13	18	59	579	2	2	2	15	2	621	13	7,564	88	4		
	Max	ng/m³	22	64	74	22	165	20,219	74	74	18	37	37	16,543	276	62,494	5,514	294		
chaust	Avg	am/sec	2.08E-04	2.08E-05	4.85E-05	6.24E-05	1.11E-04	2.18E-03	6.94E-06	6.94E-06	6.94E-06	5.55E-05	6.94E-06	2.34E-03	4.85E-05	2.85E-02	3.33E-04	1.39E-05		
Uncontrolled Stripper Exhaust	Max	gm/sec	2.08E-04	2.43E-04	2.77E-04	1.87E-04	6.24E-04	7.62E-02	2.77E-04	2.77E-04	6.94E-05	1.39E-04	1.39E-04	6.24E-02	1.04E-03	2.35E-01	2.08E-02	1.11E-03		
ntrolled	Avg	lb/hr	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.23	0.00	0.00	0.27	0.25
Unco	Max	lb/hr	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.49	0.01	1.87	0.17	0.01	3.17	2.57
	Avg	lb/day	0.04	0.00	0.01	0.01	0.05	0.42	0.00	0.00	0.00	0.01	0.00	0.45	0.01	5.43	90.0	0.00	6.43	6.05
	Max	lb/day	0.04	0.05	0.05	0.04	0.12	14.51	0.02	0.05	0.01	0.03	0.03	11.88	0.20	44.86	3.96	0.21	76.05	61.57
Conc	Avg	ng/L				0.1		0.0						0.0		0.5	0.0		9.0	9.0
Effluent (Max	ng/L				0.3		1.3						6.0		4.5	0.0		7.0	5.7
_	Avg	ng/L	3.0	0.3	0.7	1.0	1.6	31.5	0.1	0.1	0.1	0.8	0.1	.33.8	0.7	411.5	4.8	0.2	487.3	458.8
GW Conc.	Мах	ng/L	3	3.5	4	က	б	1,100	4	4	Ψ-	2	2	006	15	3,400	300	16	5,764	4,667
		HAP⁴	Yes	Yes	Yes	Yes	Yes	Ŷ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
		VOC ³	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	Toxicity:	H/M/L ² VOC ³		Σ	_	Σ	Σ	Σ	I	I	Σ	Σ	Σ	Σ		Σ	I	Σ		
	CAS	Number	00071-55-6	00019-00-5	00075-34-3	00107-06-2	00075-35-4	00540-59-0	00071-43-2	00056-23-5	00108-90-7	00067-66-3	01634-04-4	00127-18-4	00108-88-3	00079-01-6	00075-01-4	01330-20-7		
-		Name	1,1,1-Trichloroethane (Methyl Chloroform) 00071-55-6	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene (Vinylidene Chloride) 00075-35-4	1,2-Dichloroethylene	Benzene	Carbon Tetrachloride	Chlorobenzene (Monochlorobenzene)	Chloroform	Methyl Tert Butyl Ether	Tetrachloroethylene	Toluene	Trichloroethylene	Vinyl chloride	Xylenes	Total VOCs	Total HAPs

2,347 lb/yr 2,209 lb/yr Total Uncontrolled VOC Total Uncontrolled HAP

Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
 Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Toxics Section, September 10, 2007.
 Source: 6 NYCRR Part 200 1(cg)
 Source: 6 NYCRR Part 200.1(ag)

Emission Estimate ATTACHMENT 1

Feed Water Flow 1,100 gpm: max or normal

250 m³/hr 1,200 gpm: max or normal Water Flow Including Recycle

273 m³/hr

8,000 cfm 13,592 m³/hr 50 Air Flow

A/W vol ratio

pper Exhat	Avg	gm/sec	1.04E-05	1.04E-06	2.43E-06	3.12E-06	5.55E-06	1.09E-04	3.47E-07	3.47E-07	3.47E-07	2.77E-06	3.47E-07	1.17E-04	2.43E-06	1.43E-03	1.66E-05	6.94E-07					
Controlled Stripper Exhau	Max	gm/sec	1.04E-05	1.21E-05	1.39E-05	9.36E-06	3.12E-05	3.81E-03	1.39E-05	1.39E-05	3.47E-06	6.94E-06	6.94E-06	3.12E-03	5.20E-05	1.18E-02	1.04E-03	5.55E-05			1.7	L A	b/yr
Cor	Avg	lb/day	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.27	0.00	0.00	0.32	0.30		I I I I I I I I I I I I I I I I I I I	110 lb/yr
	Max	lb/day	00.0	0.00	0.00	0.00	0.01	0.73	0.00	0.00	0.00	00.00	0.00	0.59	0.01	2.24	0.20	0.01	3.80	3.08		on name	olled HAP
	Control by	GAC	62%	%56	%56	95%	%56	% 56	82%	82%	95%	%56	95%	82%	%5 6	% 56	82%	%56					Total Controlled HAP
	J	HAP ⁴	Yes	Yes	Yes	Yes	Yes	٥	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
		VOC3	٩	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes					
	Toxicity:	H/M/L ²		Σ	_	Σ	Σ	Σ	ェ	I	Σ	Σ	Σ	Σ	_	Σ	I	Σ					
	CAS	Number	00071-55-6	00079-00-5	00075-34-3	00107-06-2	00075-35-4	00540-59-0	00071-43-2	00056-23-5	00108-90-7	00067-66-3	01634-04-4	00127-18-4	00108-88-3	00079-01-6	00075-01-4	01330-20-7					
		Name	1,1,1-Trichloroethane (Methyl Chloroform)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene (Vinylidene Chloride)	1,2-Dichloroethylene	Benzene	Carbon Tetrachloride	Chlorobenzene (Monochlorobenzene)	Chloroform	Methyl Tert Butyl Ether	Tetrachloroethylene	Toluene	Trichloroethylene	Vinyl chloride	Xylenes	Total VOCs	Total HAPs			

Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
 Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Tox
 Source: 6 NYCRR Part 200.1(cg)
 Source: 6 NYCRR Part 200.1(ag)

ATTACHMENT 2 AIR SCREENING ANALYSIS: Annual

ANNUAL IMPACTS COMPARED TO ANNUAL GUIDI	JAL GUIDELINI				I-Honi Impaci	2.001		
		CONCENT	ELINE CONCENTRATIONS (AGCs		Annual Impact	32.456	(ng/m³)	
		NYSDEC		-				
- !		Guideline	Estimated Emissions	missions	Predicted Ann	ual Impact	Predicted Annual Impact Maximum Percent of AGC	cent of AGC
		AGC	Uncontrolled	Controlled	Uncontrolled	Controlled	Uncontrolled	Controlled
Pollutant	CAS Number	(ng/m³)	(s/b)	(s/b)	(ng/m³)	(ng/m ₃)	Pct	Pct
1,1,1-Trichloroethane (Methyl Chloroform) 00071-55-6	00071-55-6	1000.00	2.08E-04	1.04E-05	0.0068	0.0003	%0.0	%0.0
1,1,2-Trichloroethane	00079-00-5	1.40	2.08E-05	1.04E-06	0.0007	0.000.0	%0.0	%0.0
1,1-Dichloroethane	00075-34-3	0.63	4.85E-05	2.43E-06	0.0016	0.0001	0.3%	%0.0
1,2-Dichloroethane	00107-06-2	0.04	6.24E-05	3.12E-06	0.0020	0.0001	5.3%	0.3%
(Vinylidene Chloride)	00075-35-4	70.00	1.11E-04	5.55E-06	0.0036	0.0002	%0.0	%0.0
1,2-Dichloroethylene	00540-59-0	63.00	2.18E-03	1.09E-04	0.0709	0.0035	0.1%	%0.0
	00071-43-2	0.13	6.94E-06	3.47E-07	0.0002	0.0000	0.2%	%0.0
Carbon Tetrachloride 0	00056-23-5	0.07	6.94E-06	3.47E-07	0.0002	0.0000	0.3%	%0.0
Chlorobenzene (Monochlorobenzene)	00108-90-7	110.00	6.94 E -06	3.47E-07	0.0002	0.000.0	%0:0	%0.0
Chloroform	00067-66-3	0.04	5.55E-05	2.77E-06	0.0018	0.0001	4.2%	0.2%
e	01634-04-4	3000.00	6.94E-06	3.47E-07	0.0002	0.000.0	%0.0	%0.0
Tetrachloroethylene	00127-18-4	1.00	2.34E-03	1.17E-04	0.0761	0.0038	7.6%	0.4%
	00108-88-3	2000.00	4.85E-05	2.43E-06	0.0016	0.0001	%0.0	%0.0
ene	00079-01-6	0.50	2.85E-02	1.43E-03	0.9252	0.0463	185.0%	9.3%
Vinyl Chloride	00075-01-4	0.11	3.33E-04	1.66E-05	0.0108	0.0005	9.8%	0.5%
Xylenes	01330-20-7	100.00	1.39E-05	6.94E-07	0.0005	0.0000	%0.0	0.0%

ATTACHMENT 2 AIR SCREENING ANALYSIS: Short term

BETHPAGE SCREENING ANALYSIS						1-Hour Impact	405.7	(ng/m ₃)
SHORT-TERM IMPACTS COMPARED TO SHORT-T		GUIDELINE	ERM GUIDELINE CONCENTRATIONS (SGCs)	ONS (SGCs)	An	Annual Impact	32.456	(ng/m ₃)
	:							
;								:
		NYSDEC			Predicted Short-term	hort-term		i
		Guideline	Estimated Emissions	missions	Impac	t	Maximum Percent of SGC	cent of SGC
		SGC	Uncontrolled	Controlled	Uncontrolled	Controlled	Uncontrolled	Controlled
Pollutant	CAS Number	(ng/m³)	(s/b)	(s/b)	(ng/m ₃)	(m/gn)	Pct	Pct
1,1,1-Trichloroethane (Methyl Chloroform) 00071-55		68000.00	2.08E-04	1.04E-05	0.084	0.004	%0.0	0.0%
1,1,2-Trichloroethane	00079-00-5		2.43E-04	1.21E-05	0.098	0.005		
1,1-Dichloroethane	00075-34-3		2.77E-04	1.39E-05	0.113	9000		•
1,2-Dichloroethane			1.87E-04	9.36E-06	0.076	0.004		
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4		6.24E-04	3.12E-05	0.253	0.013		
1,2-Dichloroethylene	00540-59-0	,	7.62E-02	3.81E-03	30.915	1.546		
Benzene	00071-43-2	1300.00	2.77E-04	1.39E-05	0.113	900.0	%0.0	%0.0
Carbon Tetrachloride	00056-23-5	1900.00	2.77E-04	1.39E-05	0.113	900.0	%0.0	%0.0
Chlorobenzene (Monochlorobenzene)	00108-90-7	1	6.94E-05	3.47E-06	0.028	0.001		
Chloroform	00067-66-3	150.00	1.39E-04	6.94E-06	0.056	0.003	%0.0	%0.0
Methyl tert-Butyl Ether	01634-04-4	,	1.39E-04	6.94E-06	0.056	0.003		
Tetrachloroethylene	00127-18-4	1000.00	6.24E-02	3.12E-03	25.298	1.265	2.5%	0.1%
Toluene	00108-88-3	37000.00	1.04E-03	5.20E-05	0.422	0.021	%0.0	%0.0
Trichloroethylene	00079-01-6	14000.00	2.35E-01	1.18E-02	95.541	4.777	0.7%	%0.0
Vinyl Chloride	00075-01-4	180000.00	2.08E-02	1.04E-03	8.441	0.422	%0.0	%0.0
Xylenes	01330-20-7	4300.00	1.11E-03	5.55E-05	0.450	0.023	%0.0	0.0%

ATTACHMENT 2 AIR SCREENING ANALYSIS: Short term

BEINFAGE SCREENING ANALISIS					1-1	I-Hour Impact	405.7	(ng/m³)
SHORT-TERM IMPACTS COMPARED TO SHORT-T	SHORT-TERM	GUIDELINE	ERM GUIDELINE CONCENTRATIONS (SGCs)	ONS (SGCs)	An	Annual Impact	32.456	(ng/m³)
		NYSDEC			Predicted Short-term	nort-term		
		Guideline	Estimated Emissions	missions	Impact	ಕ	Maximum Percent of SGC	cent of SGC
		SGC	Uncontrolled	Controlled	Uncontrolled	Controlled	Uncontrolled	Controlled
Pollutant	CAS Number	(ng/m³)	(s/b)	(s/b)	(ng/m³)	(ng/m ₃)	Pct	Pct
1,1-Trichloroethane (Methyl Chloroform) 00071-55-	00071-55-6	68000.00	2.08E-04	1.04E-05	0.084	0.004	%0.0	%0.0
,1,2-Trichloroethane	00079-00-5	. 1	2.43E-04	1.21E-05	0.098	0.005		
I,1-Dichloroethane	00075-34-3		2.77E-04	1.39E-05	0.113	900.0	•	
,2-Dichloroethane	00107-06-2		1.87E-04	9.36E-06	0.076	0.004	•	•
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-		6.24E-04	3.12E-05	0.253	0.013	•	•
1,2-Dichloroethylene	00540-59-		7.62E-02	3.81E-03	30.915	1.546		ı
Benzene	00071-43-2	1300.00	2.77E-04	1.39E-05	0.113	900.0	%0.0	%0.0
Carbon Tetrachloride	00056-23-5	1900.00	2.77E-04	1.39E-05	0.113	900.0	%0.0	%0.0
Chlorobenzene (Monochlorobenzene)	00108-90-7	r	6.94E-05	3.47E-06	0.028	0.001	•	•
Chloroform	00067-66-3	150.00	1.39E-04	6.94E-06	0.056	0.003	%0.0	%0.0
Methyl tert-Butyl Ether	01634-04-4		1.39E-04	6.94E-06	0.056	0.003	•	•
Tetrachloroethylene	00127-18-4	1000.00	6.24E-02	3.12E-03	25.298	1.265	2.5%	0.1%
Toluene	00108-88-3	37000.00	1.04E-03	5.20E-05	0.422	0.021	%0.0	%0.0
richloroethylene	00079-01-6	14000.00	2.35E-01	1.18E-02	95.541	4.777	0.7%	%0.0
Vinyl Chloride	00075-01-4	180000.00	2.08E-02	1.04E-03	8.441	0.422	%0.0	%0.0
Xylenes	01330-20-7	4300.00	1.11E-03	5.55E-05	0.450	0.023	%0.0	%0.0

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*** SCREEN3 MODEL RUN ***

*** VERSION DATED 96043 ***
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Bethpage GM-38 Air Stripper Uncontrolled

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	1.00000
STACK HEIGHT (M)	=	12.2000
STK INSIDE DIAM (M)	=	.9100
STK EXIT VELOCITY (1	M/S) =	5.7700
STK GAS EXIT TEMP (1	K) =	294.0000
AMBIENT AIR TEMP (K)) =	293.0000
RECEPTOR HEIGHT (M)	=	.0000
URBAN/RURAL OPTION	=	URBAN
BUILDING HEIGHT (M)	=	7.6000
MIN HORIZ BLDG DIM	(M) =	22.9000
MAX HORIZ BLDG DIM	(M) =	22.9000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = .040 M**4/S**3; MOM. FLUX = 6.869 M**4/S**2.

*** FULL METEOROLOGY ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC		Ulom	USTK	TH XIM	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
10.	.1323E-07	1	1.5	1.5	480.0	22.39	3.65	2.99	NO
100.	278.3	3	1.0	1.0	320.0	27.34	22.00	20.46	NO
200.	339.9	6	1.0	1.1	10000.0	20.81	21.31	14.25	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M:

201. 339.9 6 1.0 1.1 10000.0 20.81 21.51 14.37 NO

*** TERRAIN HEIGHT OF 2. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC		U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
210.	405.7	6	1.0	1.1	10000.0	18.81	22.32	14.86	NO
300.	307.9	6	1.0	1.1	10000.0	18.81	31.28	20.08	NO
400.	219.2	6	1.0	. 1.1	10000.0	18.81	40.93	25.42	NO

500.	162.3	6	1.0				50.27		NO
600.	125.2	6	1.0	1.1	10000.0	18.81	59.32	34.91	NO
MANUTAL	1 IID GONGDNI	TO A CITAL	7 T O D	DEVOND	210	4			
	1-HR CONCEN								
210.	405.7	6	1.0	1.1	10000.0	18.81	22.32	14.86	NO
*****	*****	****	*****	*					
*** SCRE	EEN AUTOMATE	ובדפות מ	VICES **	*					•

*** TERR	RAIN HÉIGHT (OF 9.	. M ABC	OVE STA	CK BASE (JSED FOR	FOLLOWING	G DISTAN	ICES ***
DIST	CONC		U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAR	(M/S)	(M/S)	(M)	HT (M)	Y (M)		DWASH
				. , ,					
610.	133.2	6	1.0	1.1	10000.0	11.81	60.21	35.35	ИО
700.	107.4	6	1.0	1.1	10000.0	11.81	68.10	39.19	NO
800.	87.22	6 6	1.0	1.1	10000.0		76.63	43.22	NO
900.	72.75	6	1.0	1.1	10000.0	11.81	84.93	47.03	NO
		_							
MAVIMITM	1 IID CONCENT	TO A COLT	MT OD	DEVOND	610 N				
	1-HR CONCENT								
610.	133.2	6	1.0	1.1	10000.0	11.81	60.21	35.35	NO
*****	*****	*****	* * * * * *	*					
*** 500	EEN AUTOMATEI	מעדפדם מ	JCES **	*					
	THE MOTORINE								
+++++++									
*****	****	*****	*****						
				*					
	**************************************			*	CK BASE U	JSED FOR	FOLLOWING	B DISTAN	[CES ***
				*	CK BASE U	JSED FOR	FOLLOWING	G DISTAN	CES ***
*** TERR	RAIN HEIGHT (OF 11.	. M ABO	* OVE STAC	CK BASE U	,	FOLLOWING SIGMA		[CES ***
*** TERR	RAIN HEIGHT (OF 11.	. M ABO	* OVE STAC USTK	MIX HT	PLUME	SIGMA	SIGMA	
*** TERR DIST (M)	CONC (UG/M**3)	OF 11. STAB	. M ABO U10M (M/S)	VE STACUSTK	MIX HT	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
*** TERR DIST (M)	CONC (UG/M**3)	OF 11. STAB	. M ABO U10M (M/S)	USTK	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
*** TERR DIST (M) 1000.	CONC (UG/M**3) 62.47	OF 11. STAB 6	U10M (M/S)	USTK (M/S) 1.1	MIX HT (M)	PLUME HT (M)	SIGMA Y (M) 93.00	SIGMA Z (M) 50.66	DWASH
*** TERR DIST (M) 1000.	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S) 1.1	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M) 50.66	DWASH
*** TERR DIST (M) 1000.	CONC (UG/M**3) 62.47 54.05 47.42	STAB 6 6	. M ABO U10M (M/S) 1.0 1.0	USTK (M/S) 1.1 1.1	MIX HT (M)	PLUME HT (M) 9.81 9.81	SIGMA Y (M) 93.00	SIGMA Z (M) 50.66	DWASH
*** TERR DIST (M) 1000. 1100. 1200.	CONC (UG/M**3) 62.47 54.05 47.42	STAB 6 6	. M ABO U10M (M/S) 1.0 1.0	USTK (M/S) 1.1 1.1 1.1	MIX HT (M) 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53	SIGMA Z (M) 50.66 54.11 57.42	DWASH NO NO
*** TERR DIST (M) 1000. 1100. 1200.	CONC (UG/M**3) 62.47 54.05 47.42	STAB	. M ABO U10M (M/S) 1.0 1.0	USTK (M/S) 1.1 1.1 1.1	MIX HT (M) 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53	SIGMA Z (M) 50.66 54.11 57.42	DWASH NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300.	CONC (UG/M**3) 	STAB 6 6 6 6	U10M (M/S) 1.0 1.0	USTK (M/S) 1.1 1.1 1.1	MIX HT (M) 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53	SIGMA Z (M) 50.66 54.11 57.42	DWASH NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300.	CONC (UG/M**3) 62.47 54.05 47.42 42.10	STAB 6 6 6 6 7RATION	U10M (M/S) 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 BEYOND	MIX HT (M) 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300.	CONC (UG/M**3) 62.47 54.05 47.42 42.10	STAB 6 6 6 6	U10M (M/S) 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 BEYOND	MIX HT (M) 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300.	CONC (UG/M**3) 62.47 54.05 47.42 42.10	STAB 6 6 6 6 7RATION	U10M (M/S) 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 BEYOND	MIX HT (M) 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000.	CONC (UG/M**3) 62.47 54.05 47.42 42.10	STAB 6 6 6 6 7 FRATION	U10M (M/S) 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 1.1	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH=	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO C	STAB 6 6 6 6 7 FRATION 6 CALC MAI	U10M (M/S) 1.0 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 1.1 1.1	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO CO	STAB 6 6 6 6 7RATION 6 CALC MAI	U10M (M/S) 1.0 1.0 1.0 1.0	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 CC = 0.0 CASH USE	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=H	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO COMEANS NO COMEANS NO EMBREMS HUBBERS	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING	U10M (M/S) 1.0 1.0 1.0 AT OR 1.0 DE (CON E DOWNW	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 CC = 0.0 CASH USE	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=H DWASH=S	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO ENSINE MEANS HUBBERS MEANS SCHOOL	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE	U10M (M/S) 1.0 1.0 1.0 1.0 DE (CON B DOWNWER DOWN	USTK (M/S) 1.1 1.1 1.1 1.1 2.1 CC = 0.0 ASH USE WASH USE	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=H DWASH=S	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO COMEANS NO COMEANS NO EMBREMS HUBBERS	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE	U10M (M/S) 1.0 1.0 1.0 1.0 2.0 DE (CON B DOWNW ER DOWN CIRE DO	USTK (M/S) 1.1 1.1 1.1 1.1 2.1 CC = 0.0 ASH USE WASH USE	MIX HT (M) 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=N DWASH=N DWASH=N	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO EMBANS NO EMBANS NO EMBANS HUBBERS MEANS SCHUMANS DOWN	STAB 6 6 6 6 FRATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SC WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 DE (CON DE (CON ER DOWNW ER DOWN CIRE DO	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 (C = 0.0) (ASH USE) WASH USE WWWASH	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=N DWASH=N DWASH=N	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO ENSINE MEANS HUBBERS MEANS SCHOOL	STAB 6 6 6 6 FRATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SC WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 DE (CON DE (CON ER DOWNW ER DOWN CIRE DO	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 (C = 0.0) (ASH USE) WASH USE WWWASH	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=S DWASH=N DWASH=S DWASH=N	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO COMEANS NO EMBANS NO EMBANS NO EMBANS HUBBERS MEANS SCHUMANS DOWN	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 2E (CON E COWNW ER DOWNW CIRE DO OT APPL	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 WHASH USE WASH USE	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=S DWASH=N *******	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO 6 10 MEANS NO 6 18 MEANS HUBE S MEANS SCHU IA MEANS DOWN	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 2E (CON ER DOWNW ER DOWNW CIRE DO OT APPL	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 EEYOND 1.1 ICC = 0.0 IASH USE WASH USE WASH USE WASH ICABLE,	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=S DWASH=N ******* * SUMM * SI	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO 6 10 MEANS NO 6 18 MEANS HUBE S MEANS SCHU IA MEANS DOWN ***********************************	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 2E (CON ER DOWNW ER DOWNW CIRE DO OT APPL	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 EEYOND 1.1 ICC = 0.0 IASH USE WASH USE WASH USE WASH ICABLE, *******	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 SED USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=S DWASH=N ******* * SUMM * SI	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO 6 10 MEANS NO 6 18 MEANS HUBE S MEANS SCHU IA MEANS DOWN	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 2E (CON ER DOWNW ER DOWNW CIRE DO OT APPL	USTK (M/S) 1.1 1.1 1.1 1.1 1.1 EEYOND 1.1 ICC = 0.0 IASH USE WASH USE WASH USE WASH ICABLE, *******	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 SED USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=N DWASH=S DWASH=N ******* * SUMM * SI	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO 6 10 MEANS NO 6 18 MEANS HUBE S MEANS SCHU IA MEANS DOWN ***********************************	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 2E (CON ER DOWNW ER DOWNW CIRE DO OT APPL	USTK (M/S) 1.1 1.1 1.1 1.1 EEYOND 1.1 ICC = 0.0 IASH USE WASH USE WASH USE WASH ICABLE, *******	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 SED USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO
*** TERR DIST (M) 1000. 1100. 1200. 1300. MAXIMUM 1000. DWASH= DWASH=N DWASH=H DWASH=S DWASH=N ******* * SUMM * SI ******	CONC (UG/M**3) 62.47 54.05 47.42 42.10 1-HR CONCENT 62.47 MEANS NO 6 10 MEANS NO 6 18 MEANS HUBE S MEANS SCHU IA MEANS DOWN ***********************************	STAB 6 6 6 6 7RATION 6 CALC MAL BUILDING ER-SNYDE JLMAN-SO WASH NO	U10M (M/S) 1.0 1.0 1.0 1.0 AT OR 1.0 E (CON E DOWNW ER DOWN CIRE DO OT APPL ****** EHTS EN AIN PRO ******	USTK (M/S) 1.1 1.1 1.1 1.1 EEYOND 1.1 GC = 0.0 FASH USE WASH	MIX HT (M) 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 SED USED USED X<3*LB	PLUME HT (M) 9.81 9.81 9.81 9.81	SIGMA Y (M) 93.00 100.86 108.53 116.01	SIGMA Z (M) 50.66 54.11 57.42 60.60	DWASH NO NO NO NO

TERRAIN	DISTANCE	RANGE (M)
HT (M)	MINIMUM	MUMIXAM
0.	10.	200.
2.	210.	600.
9	610	920

*** REGULATORY (Default) ***
PERFORMING CAVITY CALCULATIONS
WITH ORIGINAL SCREEN CAVITY MODEL
(BRODE, 1988)

*** CAVITY CALCULAT	CION	- 1 ***	*** CAVITY CALCULATION	- 2 * * *
CONC (UG/M**3)	=	.0000	CONC (UG/M**3) =	.0000
CRIT WS @10M (M/S)	=	99.99	CRIT WS @10M $(M/S) =$	99.99
CRIT WS @ HS (M/S)	=	99.99	CRIT WS @ HS $(M/S) =$	99.99
DILUTION WS (M/S)	=	99.99	DILUTION WS $(M/S) =$	99.99
CAVITY HT (M)	=	7.84	CAVITY HT (M) =	7.84
CAVITY LENGTH (M)	=	22.86	CAVITY LENGTH (M) =	22.86
ALONGWIND DIM (M)	=	22.90		