New York State Department of Environmental Conservation

Division of Environmental Remediation

Bureau of Technical Support, 11th Floor 625 Broadway, Albany, New York 12233-7020

Phone: (518) 402-9553 • FAX: (518) 402-9577

Website: www.dec.state.ny.us



MEMORANDUM

TO:

Dan Fuller, Project Manager, Region 7

Dave Smith, NYSDEC - DER Remedial Bureau B

Gary Litwin, NYSDOH - DEHI Bureau of Environmental Exposure Investigation

Jim Burke, Regional Hazardous Waste Remediation Engineer, Region 7

Anthony Quartararo, NYSDEC - DEE Superfund and Voluntary Cleanup Bureau

Joe Ryan, DEE Program Attorney, Region 7

Christina Dowd, NYSDEC - DFWMR Bureau of Habitat

Anne Hohenstein, NYSOSC

Susanne Wither, NYSDEC, Bureau of Technical Support

FROM:

Kelly Lewandowski, NYSDEC - DER Bureau of Technical Support Filly (Christian Control of Technical Support Filly (C

SUBJECT:

Brownfield Cleanup Program Application

Binghamton Plaza, Site No. C704049

DATE:

AUG 1 2 2005

The attached Brownfield Cleanup Program Application for remedial work at the subject site has been forwarded to you for your records and/or processing according to the established Brownfield Cleanup Program procedures. If you require additional copies or the complete series of the related application's attachments, please contact the project manager, Dan Fuller at 607-775-2545.

The Time and Activity Codes for the site assigned by LATS are: 61053 (on-site) and 61054 (off-site).

Attachments

MB/ca

Distribution

Original (with all attachments) to:

Dan Fuller, NYSDEC - Region 7

Copy (with all attachments) to:

Gary Litwin, NYSDOH - DEHI Bureau of Environmental Exposure Investigation

Joe Ryan, DEE Program Attorney, Region 7

Dave Smith, NYSDEC DER Remedial Bureau B

Anne Hohenstein, NYSOSC

Susanne Wither, NYSDEC, BTS

Copy (without attachments) to:

Anthony Quartararo, NYSDEC - DEE Superfund and Voluntary Cleanup Bureau

Christina Dowd, NYSDEC - DFWMR Bureau of Habitat

New York State Department of Environmental Conservation

Division of Environmental Remediation Bureau of Technical Support, 11th Floor

625 Broadway, Albany, New York 12233-7020 **Phone:** (518) 402-9543 • **FAX:** (518) 402-9595

Website: www.dec.state.ny.us



AUG 1 2 2005

Mr. Michael Tomasulo Binghamton Plaza, Inc. c/o Galesi Realty Corp. 30 Galesi Drive Wayne, New Jersey 07470

Re: Brownfield Cleanup Program Application

Binghamton Plaza, BCP No. C704049

Dear Mr. Tomasulo:

The New York State Department of Environmental Conservation (Department) is in receipt of your application for participation in the Brownfield Cleanup Program (BCP) pursuant to ECL Section 27-1400 et seq. As you know, the BCP is a cooperative approach between the Department and lenders, developers, and current and prospective owners. The program fosters private-sector remediation of brownfields and reduces development pressures on "greenfields." We are pleased to advise you that your application has been determined to be complete.

Pursuant to ECL Section 27-1407(5), a thirty day public comment period is to be commenced upon the Department's determination that an application is complete. During the comment period the Department will be evaluating the eligibility of the project and determine the status regarding this as soon as possible. The party seeking to participate in the BCP is required under the BCP to notify in writing the chief executive officer and zoning board of each county, city, town and village in which the proposed brownfield site is located, as well as residents of the site, the public water supplier which services the area, any person who has requested to be placed on the brownfield site contact list, and the administrator of any school or day care facility located adjacent to or near the site. Further, the Department will publish a similar notice in the Environmental Notice Bulletin.

In order to facilitate the notifications, the Department has prepared the enclosed Public Notice for you to utilize and the instructions for placing and mailing the notifications as well as the document repository location and contents. As the requestor, you are responsible for making available a copy of the application and copies of all other related attached documents such as any assessment and investigation reports and/or investigation or remedial work plans. Also, you must use this Department-approved Public Notice form and cannot provide any other or additional information when fulfilling your obligation to provide a legal notice for the newspaper of the application and comment period. The enclosed form should be provided to a local newspaper servicing the area including the brownfield site for publication no later than

August 24, 2005. Additionally, all of the above-mentioned mailings should be completed no later than August 23, 2005. To the extent that the mailings and publications are not completed in accordance with these time frames, the Department will extend the comment period for a period sufficient to comply with the required thirty day notice requirement running from the latest of the mailings or publication.

A certificate of mailing, on the enclosed form, is required to be submitted within three days of the mailing. Further, the proof of publication provided by the newspaper must be submitted within three days of your receipt of such document. These documents should be submitted to the Department's project manager at:

New York State Department of Environmental Conservation Division of Environmental Remediation - Region 7 1679 NY Route 11 Kirkwood, New York 13795-9772 Attention: Dan Fuller

The Department will make every effort to determine your eligibility and status under the BCP forty-five (45) days from the date of this letter. We look forward to working cooperatively with you to address the environmental conditions at the brownfield site and to return this property back to productive use.

Sincerely,

Kelly A. Lewandowski, P.E.

Kelly (Kewanderische

Chief

Site Control Section

MB/ca Enclosures

Electronic copy w/enclosures:

D. Fuller, Project Manager, Region 7

G. Litwin, NYSDOH

A. Quartararo

S. Wither

Copy w/o enclosures:

S. Bolesky (application only)

Brownfield Cleanup Program Public Notice Instructions

A. Instructions to Requestor¹

Newspaper

- 1) The enclosed public notice must be published, without modification, in a local newspaper of general circulation that services the area that includes the site no later than the date specified in the Division of Environmental Remediation's (DER) cover letter. The notice must be located prominently in the community bulletin section or comparable local section of the newspaper. The notice must be published in English and in any other language spoken by a significant number of people within the site community.
- 2) A proof of publication of the newspaper notice must be submitted to DER by the date specified in the DER cover letter.

Site Contact List

- 1) The enclosed public notice must be mailed, without modification, to the parties on the Site Contact List included with the application. The mailing must be performed by the date specified in the DER cover letter. No other materials can be mailed with this notice.
- 2) A certificate of mailing must be completed and submitted to DER by the date specified in the DER cover letter. (See enclosed certificate of mailing form)

Repository

1) Application package (application and appropriate documents) must be put in the site document repository specified in the public notice prior to the start of the public comment period.

B. Requestor's Instructions to Newspapers Regarding Printing the Public Notice

The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1407(5), the public notice must be located prominently in the community bulletin section or similar local section of the newspaper. The public notice must be published by the date specified.

C. Requestor's Instructions to Parties on the Site Contact List Receiving the Public Notice

The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1407(5), a public notice announcing the receipt of an application must be sent to parties on the Site Contact List. Please read the enclosed public notice and review the application package in the site document repository for further information.

A requestor is a person who has submitted an application to participate in the BCP whose eligibility has <u>not</u> yet been determined by the Department of Environmental Conservation.

PUBLIC NOTICE

BROWNFIELD CLEANUP PROGRAM

Site Name:

Binghamton Plaza

Site Address:

33 West State Street

Binghamton, New York 13901

County:

Broome

Site No.:

C704049

Requestor:

Binghamton Plaza, Inc.

The New York State Department of Environmental Conservation (NYSDEC) administers the Brownfield Cleanup Program (BCP) pursuant to State Environmental Conservation Law (ECL) 27-1400 et seq. The BCP was created to encourage the remediation and redevelopment of contaminated properties known as brownfields. The requestor indicated above has submitted a BCP application for investigation of the site indicated above.

NYSDEC will accept public comments concerning the application. A copy of the application and other appropriate documents (application package) is available in the site document repository located at the address indicated below.

NYSDEC will review the application package and public comments received and then make a determination on the eligibility of the application.

Comments should be submitted by September 26, 2005 to:

New York State Department of Environmental Conservation Division of Environmental Remediation - Region 7 1679 NY Route 11 Kirkwood, New York 13795-9772 Attention: Dan Fuller

Repository address:

Broome County Public Library 185 Court Street Binghamton, New York 13901

CERTIFICATION OF MAILING

mailing list, by depositing a true	by first o	class n	nail upo	on the	person(s)	n the	attached attached
mailing list, by depositing a true	copy the	reof, s	ecurely				
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City of			, New	York	which box	k is ur	nder the
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Signature	·			Date	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·

ATTACHMENT 1



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION ECL ARTICLE 27, TITLE 14

			9/3/04
NAME Binghamton Plaza, Inc.			
ADDRESS c/o Galesi Realty Corp., 30 G	ialesi Drive		
CITY/TOWN Wayne, New Jersey		ZIP CODE 0747	70
PHONE 973-256-6600 x19	FAX 973-256-3526		E-MAIL miketomasu@aol.com
NAME OF APPLICANT'S REPRESENTATIVE	Mr. Michael W. Ton	nasulo	
ADDRESS Same as above			
CITY/TOWN		ZII CODE	
PHONE	FAX		E-MAIL
THE APPLICANT MUST CERTIFY THAT IT IS ONE OF THE BOXES BELOW:	S EFFHER A PARTICIPANT	FOR VOLUNTEER IN ACCO	RDANCE WITH ECL § 27-1405 (1) BY CHECKING
PARTICIPANT An applicant who either 1) was the owner of the sit of hazardous waste or discharge of petrolcum or responsible for the contamination, unless the liabil of ownership, operation of, or involvement with disposal of hazardous waste or discharge of petrol	(2) is otherwise a person lity arises solely as a result the site subsequent to the	solely as a result of ownership, the disposal of hazardous was NOTE: By checking this be appropriate care with respect reasonable stops to: i) stop an	ox, the applicant certifies that he/she has exercised to the hazardous waste found at the facility by taking y continuing discharge; ii) prevent any threatened future nit human, environmental, or natural resource exposure
Applicant Relationship to Property (check one): Previous Owner Current Owner	Potential /Future Pur	rchaser Other	
OWNER'S NAME (if different from applicant)	Same as applicant	<u>10. </u>	
ADDRESS			
CITY/TOWN		ZIT CODE	
PHONE	FAX		E-MAIL
OPERATOR'S NAME (if different from applicat	nt)		
ADDRESS			
CITY/TOWN		ZIP CODE	
PHONE	FAX		E-MAIL

SITE NAME Binghamton Plaza				
SITE ADDRESS 33 West State Street CITY/TOWN Binghamton ZIP CODE 13901				
COUNTY Broome SITE SIZE (ACRES) 26				
LATITUDE (degrees/minutes/seconds) 42° 6' 38.5" LONGITUDE (degrees/minutes/seconds)	7 5 °	54 '		14.8"
PLEASE ATTACH A COUNTY TAX MAP WITH IDENTIFIER NUMBERS, ALONG WITH ANY FIGURES NEEDEL BOUNDARIES OF THE SITE. ALSO INCLUDE A USGS 7.5 MINUTE QUAD MAP IN WHICH THE SITE IS LOCAT	TO SHO	w the l	OCATIO	N AND
DO THE SITE BOUNDARIES CORRESPOND TO TAX MAP METES AND BOUNDS? IF NO, PLEASE ATTACH A METES AND BOUNDS DESCRIPTION OF THE SITE.			Z YES	□ NO
2. IS THE SITE PART OF A DESIGNATED BROWNFIELD OPPORTUNITY AREA PURSUANT			□ _{YES}	Ø NO
TO GML970-R? IF YES, IDENTIFY AREA (NAME) 3. IS THE SITE PART OF A DESIGNATED EN-Zone PURSUANT TO TL § 21(b)(6)? FOR MORE INFORMATION			Z YES	סא □
GO TO: http://www.nyloveshiz.com/Productivity_Energy_and_Environment/BrownField_Redevelopment/default.asp				
IF YES, IDENTIFY AREA (NAME) 000500 (City of Binghamton)				
	÷			
1. ARE ANY ENFORCEMENT ACTIONS PENDING AGAINST THE APPLICANT REGARDING THIS SITE?			□YES	⊠ NO
2. IS THE APPLICANT SUBJECT TO AN OUTSTANDING CLAIM BY THE SPILL FUND FOR THIS SITE?			□ _{YES}	MNO
3. HAS THE APPLICANT VIOLATED ANY PROVISION OF ECL ARTICLE 27?			□ _{YES}	⊠ NO
4. HAS THE APPLICANT BEEN PREVIOUSLY DENIED ENTRY TO THE BCP?			□ YES	MNO
5. HAS THE APPLICANT COMMITTED A NEGLIGENT OR INTENTIONALLY TORTIOUS ACT REGARDING IL WASTE OR PETROLEUM?	AZARDO I	JS	□YES	⊠ NO
6. HAS THE APPLICANT BEEN CONVICTED OF A CRIMINAL OFFENSE THAT INVOLVES A VIOLENT FELOR BRIDERY, PERJURY, THEFT, OR OFFENSE AGAINST PUBLIC ADMINISTRATION?	NY, FRAU	D.	□YES	☑ NO
7. HAS THE APPLICANT KNOWINGLY FALSIFIED STATEMENTS OR CONCEALED MATERIAL FACTS IN A MATTER RELATED TO THE DEPARTMENT?			□YES	DNO
8. HAS THE APPLICANT, BASED ON THE PROVISIONS OF ECL ARTICLE 27-1407 (OR A SIMILAR PROVISION OR STATE LAW), COMMITTED AN ACT OR FAILED TO ACT, AND SUCH ACT OR FAILURE TO ACT COUR BASIS FOR DENIAL OF A BCP APPLICATION?	N OF FED OD BE TH	eral. E	□YES	Ø NO
1. DOES THE SITE MEET THE DEFINITION OF A BROWNFIELD SITE (REAL PROPERTY, THE REDEVELOPM REUSE OF WHICH MAY BE COMPLICATED BY THE PRESENCE OR POTENTIAL PRESENCE OF A HAZAR WASTE, PETROLEUM, POLLUTANT, OR CONTAMINANT)?		<u>-</u> -	⊠ YES	□ _{NO}
2. IS THE SITE LISTED ON THE NATIONAL PRIORITIES LIST?			□ _{YES}	Z NO
3. IS THE SITE LISTED ON THE NYS REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES? IF YES, PLEASE PROVIDE: SITE # CLASS #			□YES	Pino
4. IS THE SITE SUBJECT TO A PERMIT UNDER ECL ARTICLE 27, TITLE 9, OTHER THAN AN INTERIM STATUS FACILITY?			□yes	ENO
5. IS THE SITE SUBJECT TO A CLEANUP ORDER UNDER NAVIGATION LAW ARTICLE 12 OR ECL ARTICLE TITLE 10?	17		□YES	Z NO
6. IS THE SITE SUBJECT TO A STATE OR FEDERAL ENFORCEMENT ACTION RELATED TO HAZARDOUS W OR PETROLEUM?	ASTE	_	□ _{YES}	⊠ NO
PLEASE ATTACH A DESCRIPTION OF THE PROJECT WHICH INCLUDES THE FOLLOWING COMPONENTS:				
PURPOSE AND SCOPE OF THE PROJECT ESTIMATED PROJECT SCHEDULE				

TO THE EXTENT THAT EXISTING FOLLOWING:	Information/stud	HES/REPORTS ARE A	VAILABLE TO THE A	pplicant, please A	ATTACH THE
ENVIRONMENTAL BATA A PHASE I ENVIRONMENTAL: and Materials: Standard Practice for REPORT'S RELATED TO CONT. IF A FINAL INVESTIGATION R.	r Environmental Site Ass AMINANTS ON OR EM	sessments; Phase I Envir IANATING FROM THI	ronmental Site Assessme E SITE.	ent Process), AND ALL	ENVIRONMENTAL
□YES ØNO					}
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RELATIONSHIP, IF ANY, TO EA	CH PREVIOUS OWNE	ER LISTED. IF NO RE	LATIONSHIP, PUT "N	ONE').	
3. OPERATORS A LIST OF PREVIOUS OPERATORS	ORS WITH NAMES, LZ	ST KNOWN ADDRES	SSES AND TELEPHON	IE NUMBER (DESCRII	BE APPLICANT'S
REILATIONSHIP, IF ANY, TO E	ACH PREVIOUS OPERA	ATOR LISTED. IF NO	RELATIONSHIP, PUT	"NONE")	
PLEASE ATTACH, AT A MINIMUM	THE NAMES AND A	DDRESSES OF THE F	OLLOWING:		
1. THE CHIEF EXECUTIVE OFFIC	·			TY, TOWN AND VILL	AGE IN WHICH THE
SITE IS LOCATED. 2. RESIDENTS, OWNERS, AND OR	CUPANTS OF THE ST	TE AND PROPERTIES	ADIACENT TO THE	SITE.	
3. LOCAL NEWS MEDIA FROM W					
4. THE PUBLIC WATER SUPPLIES					
S. ANY PERSON WHO HAS REQU					
6. THE ADMINISTRATOR OF ANY	Y SCHOOL OR DAY CA	ARE FACILITY LOCA	TED ON OR NEAR TH	E SITE.	
7. THE LOCATION OF A DOCUM	ENT REPOSITORY FOR	R THE PROJECT (E.G.,	LOCAL LIBRARY)		
INDICATE KNOWN OR SUSPECTE	D CONTAMINANTS A	ND THE MRDIA WHI	CH ARE KNOWN OR	SUSPECTED TO HAV	e been affected:
Conteminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum					
Chlorinated Solvents		~			
Other VOCs	~				
SVOC8	~	V			
Metala	·	~			
Pesticides					
PCBs	~	V			
Other*					
*Please describe:					
Current Use: Residential	☑Commercial □	Industrial D Othe	er 000500 (City of	Binghamton)	
Future Use:	Commercial [Industrial DOth	er		
Please check the appropriate boxes and provide an explanation as an attachment if appropriate. Yes No Unknown					
Please check the appropriate b	oxes and provide an	explanation as an	attachment if appro	priate.	Yes No Unknown
Please check the appropriate b 1.Do current historical and/or a				priate.	Yes No Unknown

3. Is the proposed use consistent with applicable brownfield opportunity area designations? (See GML 970-r)	n		Ø
4. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, other adopted land use plans?	Ø	<u> </u>	Ġ
5. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)).		ď	
6. Are there any federal or State land use designations relating to this site?		Ø	
7. Do the population growth patterns and projections support the proposed use?	Ø		
R. Is the site accessible to existing infrastructure?			
Are there important cultural resources, including federal or state historic or heritage sites or Native American religious sites proximate to the site?		Ø'	Ċ
10. Are there important federal, state or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species proximate to the site?	Ø		
11. Are there floodplains proximate to the site?	Ø		
2. Are there any institutional controls currently applicable to the site?		Ø	
13. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, and recreational areas.	nercia	ıl, indu	ıstrial,
14. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from proximity to wellhead protection and groundwater recharge areas.	n the s	ite, in	cluding
15. Describe on attachment the geography and geology of the site.			
Note: the 16th criteria relates to comments from the public, which would not be received at the time of applicat	ion)		
(By applicant who is an individual) I hereby affirm that information provided on this form and its attachments is true and complete to the best of m belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to se Penal Law. Date: Signature: Print Name; (By an applicant other than an individual) I certify that I am Executive Vice Pres. (title) of Binghamton Plaza, Inc. (entity); that I am authorized by that entity to	make	210.4 this	5 of the
application; that this application was prepared by me or under my supervision and direction; and that information and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false therein is punishable as a Class A misdenator purposant to Section 210.45 of the Penal Law.	on pro	ment :	made on uns
Date: 6/3/05 Signature /// / / Sword Print Name: Michael W. Tomasulo			
UBMITTAL INFORMATION: Three (3) complete copies are required. Two (2) copies, one hard copy with original signatures and one electronic copy in Portable Document I or diskette, must be sent to:	[‡] orma	ıt (PD)	F) on a
Chief, Site Control Section New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, NY 12233-7020		-	
One (1) hard copy must be sent to the DEC regional contact in the regional office covering the county is located. Please check our website for the address of our regional offices: http://www.dec.state.ny.us/we	in wh bsite/	ich the der/in	site is dex.htm
OR DEPARTMENT USE ONLY			
CP SITE NO: BCP SITE T&A CODE: PROJECT MANAGER:			

BINGHAMTON PLAZA BROWNFIELD CLEANUP PROGRAM APPLICATION LIST OF ATTACHMENTS

Attachment 1: Site Information

- USGS 7.5 minute Quadrangle: Binghamton West (with site location indicated)
- Survey of the Lands of Binghamton Plaza, Inc., West State Street, Binghamton, Broome County, NY. Prepared by Keystone Associates: 1-18-05
- Tax Map

Attachment 2: Project Description

Attachment 3: Site's Environmental History

- Summary of Site History
- List of Current and Previous Owners
- Due Diligence Summary, including Sanborn Maps and EDR Report
- Limited Site Investigation Report, Delta Environmental Consultants, Inc., 30 March 2005

Attachment 4: Contact List Information

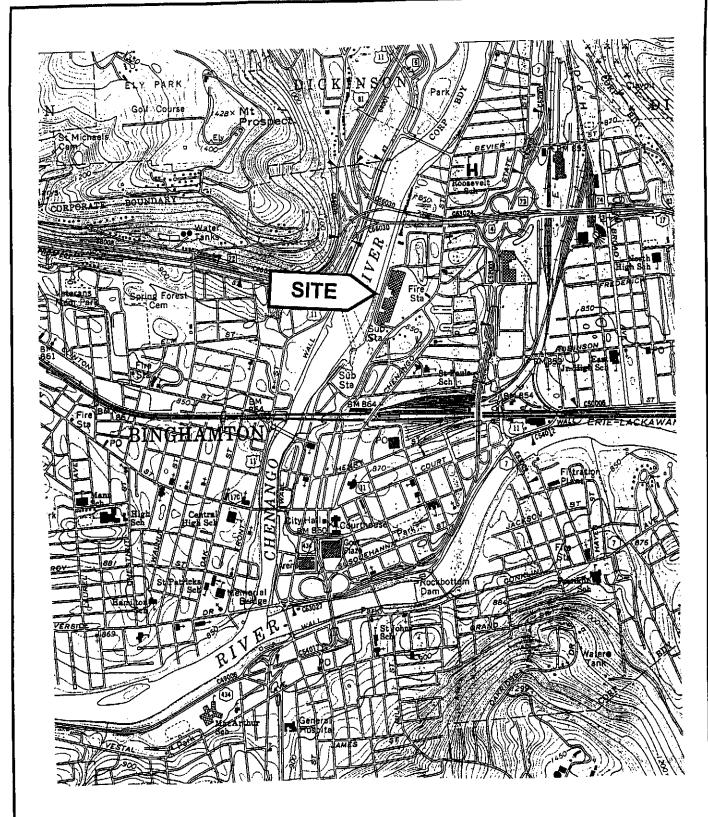
- Government Contacts (Application Item 1)
- Tenant List and Location; Adjacent Property Owners (Application Item 2)
- Additional Contact information (Application Items 3-7)

Attachment 5: Contaminant Information

Attachment 6: Land Use Factors

- Waterways and Floodplains (Application Items 10 and 11)
- Institutional Controls (Application Item 12)
- Real Property Use (Application Item 13)
- Groundwater Vulnerability (Application Item 14)
- Geography and Geology (Application Item 15)

Attachment 7: Site Investigation Work Plan



USGS 7.5 minute Quadrangle: Binghamton West



104 Jamesville Road Syracuse, NY 13214 PH: 315-445-0224 FX: 315-445-0793

SPA CAD FILE DATE 5/2005	Site Location Site Location Binghamton 33 West State Binghamton	Plaza Street
SCALE 1"=2,000'	PREPARED FOR: Binghamton Plaza, inc.	FIGURE: 2-1

5-25-05

Update of adjacent property owners – Binghamton Plaza

Lot number	Owner Information
1101046	Cheri A. Lindsey Park - City of Binghamton
1101039	George Woodmansee, Pine West, Windsor, NY. 13865
1101038	George W. Shope, Jr., 1 N. Irving Av., Binghamton, NY, 13901
1101029	Nildo & Josephine Giangan, PO Box 487, Brentwood, NY. 11710
L.1041 P.903	Brewer Street - City of Binghamton
1110036	mi m . Oir omi i
1110050	Fire Dept. – City of Binghamton
1115020	Robert J. Skrabalak (old incinerator Property) c\o MacDonalds Corp., AMF O'Hare Airport, PO Box 66207, Chicago, IL 60666

ATTACHMENT 2

ATTACHMENT 2: PROJECT DESCRIPTION

The Brownfield Cleanup Program (BCP) Volunteer, Binghamton Plaza, Inc., is highly motivated to revitalize Binghamton Plaza (BP) into a gateway attraction that will greet visitors to Binghamton, re-energize the North Binghamton neighborhood, complement the adjacent Cheri Lindsay Park and the planned Chenango Riverwalk, and create hundreds of permanent jobs. This revitalization plan is complicated by the presence of environmental contaminants that exist due to past activities conducted by previous owners and operators. Overcoming environmental challenges through the BCP will allow for successful completion of this critical project.

Current Situation

The current plaza occupies 26 acres in a mixed commercial / residential / recreation area on the east bank of the Chenango River. The subject Site is located within a New York State Department of Environmental Conservation (NYSDEC) Environmental Zone, or "En-zone". BP is located immediately south of Cheri Lindsay (CL) Park, one of Binghamton's biggest public parks which includes a public swimming pool and bath house, little league baseball fields, basketball courts, picnic areas, a skateboard park, and a "BMX" bike park. The Chenango River borders BP to the west, and the City of Binghamton is funded to construct a Riverwalk along the east bank of the River, which will connect downtown Binghamton to CL Park. BP is highly visible from Routes 81, 17, and 11, making it a "gateway" property. Properties to the east and south of BP are mixed commercial and residential (see Site Location Map, Attachment 1).

BP is currently "economically challenged", with a total retail occupancy rate of only 51% and a total office occupancy rate of only 12%. The major tenant, K-Mart, occupies 95,000 square feet (s.f.) of the approximately 300,000 s.f. plaza. K-Mart is currently on a month-to-month lease and will likely not continue occupancy if the revitalization plans described herein are not implemented.

Challenges to BP revitalization include access considerations related to entrance roadways and parking areas that were built on unconsolidated fill material. Settling has caused severe damage to these features and the underlying services (water, sanitary sewer, storm sewer, etc.). Environmental challenges need to be addressed before access issues can be resolved.

Proposed Future Use

Proposed reconstruction of BP as a premier public gathering, shopping and entertainment facility will complement the ongoing Chenango Riverwalk construction project being conducted by the City of Binghamton. BP will be reconfigured to allow pedestrian access to the Riverwalk, provide pedestrian plazas and river overlook stations, provide needed parking, and enhance the project with a new farmers' market arbor, artisan shops and entertainment facilities. Conceptual drawings of the reconstruction are attached.

One key planned addition to BP is a Family Entertainment Center (FEC) that would occupy approximately 100,000 s.f. of currently empty space. The FEC would be a huge

positive addition to the City, bringing customers, night life, identity and character to the area. The FEC will dovetail nicely with the Riverwalk and CL Park, making this area a "destination". It is estimated that the FEC would bring customers and shoppers from a 50-mile radius of BP, as a comparable facility does not exist in the region. The FEC is estimated to bring 100 to 150 new jobs to the area.

Revitalization of BP will also assure that the current major tenant, K-Mart, will remain with 150 to 200 jobs. Additional permanent jobs will be created as BP and surrounding sites become fully utilized. Temporary construction jobs will also be created by the project.

Environmental Challenges

Significant environmental challenges need to be overcome prior to site revitalization. Activities conducted by previous owners and occupants of the Site, plus activities on adjacent and nearby properties, have adversely affected site conditions. Site history is summarized below; a detailed description is provided in Attachment 3.

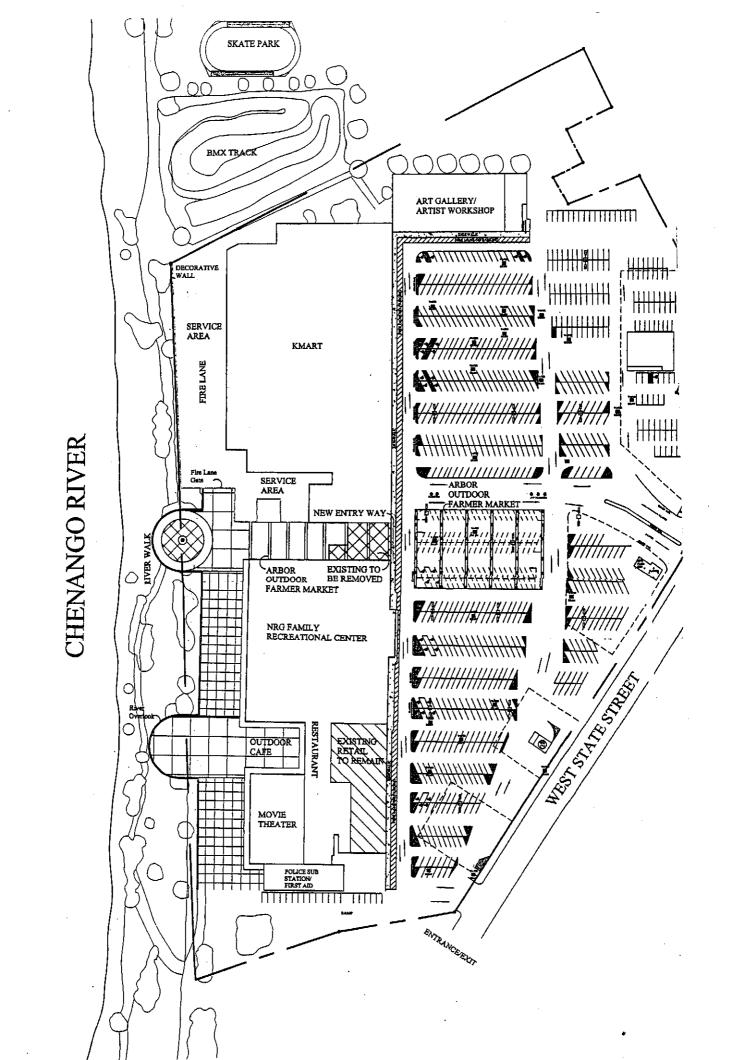
- City of Binghamton operated a landfill within the entire site boundary (and beyond) from the mid-1940s to the mid-1950s;
- An incinerator operated adjacent to the Site from the mid-1950s to early 1960s (incinerator ash was spread on the Site);
- The shopping plaza was constructed on the Site in 1963 over approximately 10 to 35 feet of fill material;
- A dry cleaner formerly operated on-site, resulting in the presence of chlorinated solvents in the subsurface:
- Operations on adjacent parcels (gas station, dry cleaner, car wash) may have adversely affected the Site.

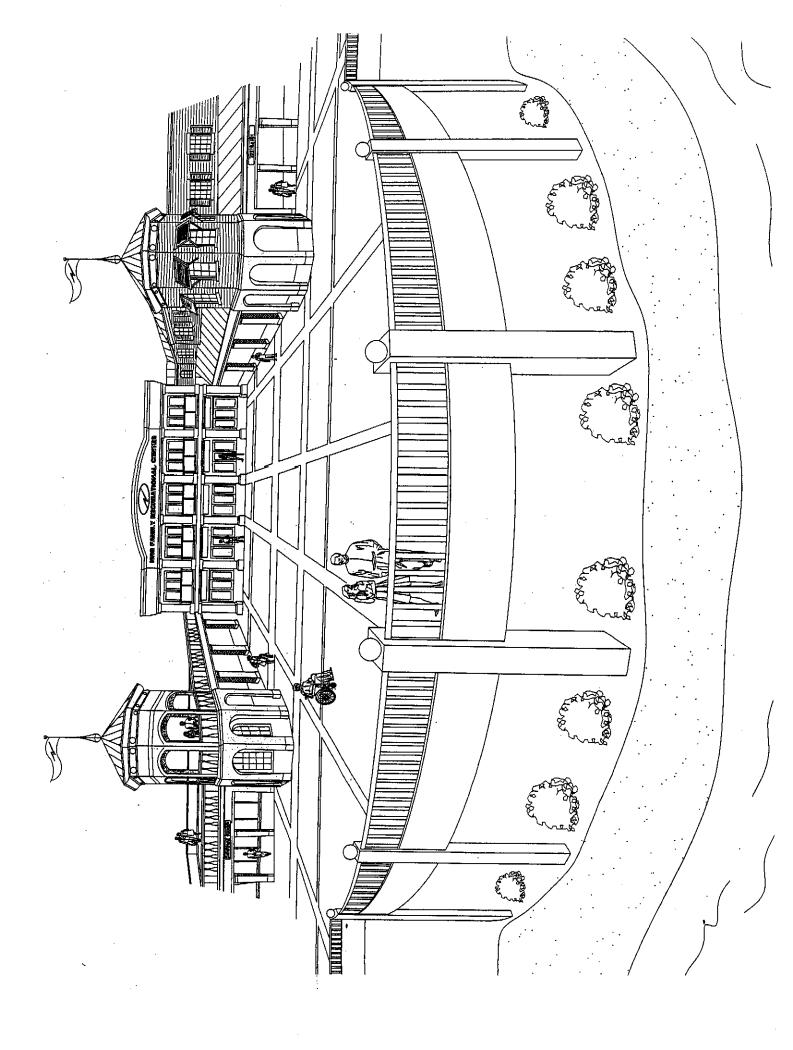
These activities have resulted in the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), heavy metals and PCBs in unconsolidated material underlying the site. Limited site investigation activities indicate that groundwater is also affected. To address these concerns, Delta has developed a comprehensive Site Investigation Work Plan that, when implemented, will characterize site conditions and determine the nature and extent of affected media. The Site Investigation Work Plan is provided as Attachment 7 to the BCP Application.

Based on Site Investigation results, potential Remedial Alternatives will be evaluated and an appropriate remediation plan will be developed and implemented. Remediation will proceed in coordination with site redevelopment / reconstruction to allow for planned reuse in a timely manner.

Schedule

Site Investigation work will be initiated upon approval by NYSDEC of the BCP Application and associated Work Plan. Delta anticipates that Site Investigation work (including sample analyses, data validation and evaluation, and reporting) will take up to 10 weeks. Site remediation and redevelopment will start as soon as possible thereafter.





ATTACHMENT 3

SUMMARY OF SITE HISTORY

According to available information, the site was undeveloped in the early 1900s and was later used as a municipal "raw garbage" landfill by the City of Binghamton from 1946 until 1957. A municipal garbage incinerator was reportedly constructed by the City of Binghamton in 1957 south of the existing plaza and "behind" (west of) the existing McDonald's restaurant location. The ash from the incinerator was reportedly deposited at the site for the next several years until the early 1960s at which time the use of the incinerator was discontinued. Thicknesses of the waste deposited at the site have been estimated to be 10 to 18 feet in the north end of the site, and up to 35 feet in the south end of the site.

In 1963, construction of the existing plaza reportedly began. A review of available aerial photographs indicated that the plaza was present in 1967, with the plaza layout appearing in the 1967 photographs to be nearly the same as the existing plaza in 2005. The site has been developed as a commercial strip mall and plaza since its construction in 1963.

Typical tenants at the plaza have included occupants such as food establishments, service stores (salons, etc), large retail stores (Kmart) and various specialty retail stores (Shoe stores, Radio Shack, etc). Other tenants at the site have also included a dry cleaner (Martin Brothers Cleaners and Dyers), an auto parts store (National Auto Stores) and a paint store (Sherwin Williams). The use of solvent-based materials has been documented at the site in association with the former dry cleaner (Martin Brothers). Although no longer present at the site, Martin Brothers was documented as a RCRA small quantity generator (SQG) of hazardous waste in 1986. The paint store and the auto parts store referenced above were also documented as SQGs at the site.

Neighboring properties to the site have included several fuel dispensing sites (i.e., gas stations), a dry cleaner, a park, residential areas, various commercial properties, and food establishments. Historical investigations at neighboring properties reported the presence of "significant contamination" in the soil and groundwater at the McDonald's property to the south, and also beneath the Cheri Lindsey Park to the north). Reportedly, the entire Cheri Lindsey Park to the north is underlain by municipal landfill waste similar to the site.

According to available records at local Binghamton County Department of Health offices, an off-site well field situated north of the Cheri Lindsey Park (the "Olmstead Well Site") was nominated in conjunction with the plaza site as a "Hazardous Substance Disposal Site" in the early 1990s due to the detected presence of contaminants in samples collected from the well. The nomination was reportedly denied by NYSDEC, and there is no evidence that the Olmstead Well Site or the plaza site were included on the Hazardous Substance Site List. Further, a 19 May 2005 correspondence from the Broome County Department of Environmental Health Services indicated that the "capture zone" associated with drawdown during pumping operations of the Olmstead well does not approach the Binghamton Plaza site; therefore, any contamination associated with the Olmstead Well Site is likely not from the Binghamton Plaza site.

Binghamton Plaza <u>List of Current and Previous Owners</u>

Current Owner:

Binghamton Plaza, Inc.

c/o Galesi Realty Corporation

30 Galesi Drive

Wayne, New Jersey 07470

Contact: Michael W. Tomasulo, Executive VP

Phone:

973-256-6600, Ext. 19

Fax:

973-256-3526

Email:

miketomasu@aol.com

Previous Owner:

City of Binghamton

City Hall

Binghamton, New York 13901

Contact: Mr. Richard A. Bucci (current mayor)

Phone:

607-772-7001

Email:

mayor@cityofbinghamton.com



9 May 2005 (updated 23 May 2005)

RE: Due Diligence Findings

Binghamton Plaza Redevelopment Project West State Street, Binghamton, New York

DUE DILIGENCE ACTIVITIES AND FINDINGS

- 1. Sent Freedom of Information Act (FOIA) letters to the following entities:
 - United States Army Corp of Engineers (Buffalo office);
 - NYSDEC (Region 7 and Kirkwood offices);
 - United States Environmental Protection Agency
 - New York State Department of Health
 - Binghamton Fire Marshall and Code Enforcement Officer

The FOIA requests required each agency to search their files to determine if there are any records related to the subject Site. Appropriate files were found, and Delta to reviewed and copied those files as needed. File review findings are presented in subsequent sections of this summary.

- 2. Reviewed Environmental Data Resources, Inc. (EDR) database for environmental records related to the subject site and adjacent sites. FINDINGS SUMMARY: A Dry Cleaner was listed at the Target Property (Martin Brothers Cleaners & Dyers). Although this business is not currently at the site, it was a RCRA Small Quantity Generator (SQG) site in 1986. Reportedly, halogenated solvent and still bottoms from solvent recovery operations were wastes generated onsite. This site required additional evaluation (see Limited Site Investigation report). Two other RCRA SQGs are listed at the Target Address (National Auto Stores and Sherwin Williams). No information regarding violations is presented for these sites. There are no other mapped sites within 1/8 mile of site; however, there are Leaking Underground Storage Tank (LUST) sites, Spill sites, and RCRA SQG sites listed as being present outside the 1/8-mile radius. Due to their distance from the subject Site, it appears that these sites would not present a concern to the subject Site.
- 3. Purchased and reviewed Sanborn Fire Insurance Maps from EDR. FINDINGS SUMMARY: A 1970 Sanborn Map shows an incinerator site adjacent to the southern border of the subject Site, a filling station adjacent to the southern border of the subject Site, two filling stations southeast of the subject Site, and a car wash in the north-central portion of what is now the subject Site. The 1918, 1950 and 1952 maps show fair grounds or park on the subject property. Available Sanborn Maps do not indicate the presence of a landfill.
- 4. Reviewed aerial photographs of the site at the Cyber Security & Critical Infrastructure Coordination in Albany, NY. **FINDINGS SUMMARY:** Delta reviewed historic aerial photographs for the following years: 1967, 1968, 1973, 1974 and 1991. These photographs generally show little to no change to the plaza or surrounding property. The main portion of the plaza was present in the 1967 photograph along with the park to the north, commercial and residential land use to the east, commercial and/or light industrial land

Due Diligence Summary Binghamton Plaza 9 May 2005 (updated 23 May 2005) Page 2 of 3

use to the southeast and south, and the river to the west. There were no indications of any former landfill or incinerator. Delta was not allowed to obtain copies of these photographs.

- 5. Conducted a telephone interview with the Broome County Soil & Water Conservation District Binghamton Service Center (1163 Upper Front Street Binghamton, NY 607-723-1384 x8). **FINDINGS SUMMARY:** Delta spoke with a Mr. Derek Green, who informed us that historic aerial photos for the following years are available at the Center: 1938, 1955, 1965, 1977, 1990 and 1995. Mr. Green agreed to mail Delta copies of the 1938 and 1955 photos for the site. Review of those photos did not provide any conclusive information.
- 6. Viewed historic topographic maps for the years 1904, 1942 and 1968 and also viewed hard copies for 1968 and 1991. **FINDINGS SUMMARY:** The 1904 topographic map shows that the site was undeveloped property as was the lot to the north. The remainder of the surrounding properties appeared to be developed. The 1942 topographic map shows no changes to the subject property with the exception of a small entrance road onto the undeveloped property from the south (i.e., off Chenango Street). The 1968 and 1991 topographic maps show the plaza on the site. There were no definitive indications of a landfill or incinerator on the property; however, the presence of the entrance road shown on the 1942 map is likely an indication of landfill operations. None of the maps indicated the extent of filling operations.
- 7. Discussed site history with representatives from the City of Binghamton Engineering Department. FINDINGS SUMMARY: According to the City Engineering Department, the City of Binghamton operated a solid waste landfill at the site up until the mid 1950s. The entire Binghamton Plaza is located within the footprint of the former landfill, as is part of the skateboard park to the north. The exact extent of the landfill is not known. Landfill waste is estimated to be up to 20 feet thick. The landfill was reportedly closed in the mid-1950s, when the City constructed and operated a solid waste incinerator to manage municipal waste. The incinerator was reportedly located behind what is now McDonalds, south of the Plaza. According to department personnel, ash from the incinerator was "probably spread on the ground". Incinerator use stopped in the mid-1960s, and the incinerator burned down in the mid-1970s. Reportedly, most of the records and drawings related to landfill and incinerator operations were destroyed in that fire.
- 8. Performed a one-day site visit and file review in Binghamton. The site visit included taking select site photographs and evaluating on-site features and adjacent properties that could impact the subject parcel (e.g. Kwik Fill gas station, Martin Dry Cleaner, former Howard Gas Station, Cheri Lindsey Park, etc.). **FINDINGS SUMMARY:** The site visit revealed that several adjacent / nearby properties exhibited features of concern. The file review is summarized as follows.

Broome County Department of Health (BCDOH). Met with Ron Brink, who presented all available BCDOH files. The files provided site history and some soil information as follows.

Archive report (William T. Ingram, P.E. December 1963) stated that the site was used by the City of Binghamton for a "raw garbage" landfill from 1946 to 1957 and that the waste is 10 to 18 feet deep in the north end and up to 35 feet deep in the south end. An incinerator was built adjacent to the landfill in 1957 and was used for only a few years, and the "ground was used for the deposition of incinerator residue". The landfill area was subsequently covered with soil and plaza construction began in 1963. The report expresses concern about the collection of landfill gas below buildings constructed over the landfill, and states that several fires broke out under buildings as a result of landfill gas being ignited.

Due Diligence Summary Binghamton Plaza 9 May 2005 (updated 23 May 2005) Page 3 of 3

A report by O'Brien & Gere stated that soil samples collected at Cheri Lindsey Park during construction of the skateboard park contained low concentrations of PCBs and several other analytes. Follow-up sampling was recommended but there was no report of additional sampling (note - Mr. Brink indicated that NYSDEC had the follow-up report).

A Hazardous Substance Waste Disposal Site Nomination Form was in the file. Review of this form revealed that the Olmstead Well Site and the Plaza Dump were nominated because there were contaminants detected in the Olmstead Well and BCDOH (the party that submitted the form) estimated that the former landfill could be a significant source of contamination. Subsequent sampling indicated that the well was suitable for use as a backup drinking water well. There is no evidence that the Olmstead Well site was include on the Hazardous Substance Site list.

[NOTE: As part of follow-up due diligence, Delta contacted Mr. Brink of Broome County Health Department on 18 May 2005 to further discuss the Olmstead Well. Mr. Brink stated that the well is currently used as a backup drinking water supply (most of Binghamton's water supply comes from the Susquehanna River). Sampling is conducted annually; TCE and 1,1 DCA have been detected at concentrations below 1 part per billion (ppb). A model provided by Mr. Brink indicates that the capture zone of the Olmstead Well does not approach Binghamton Plaza due to the proximity of the well to the Chenango River. Mr. Brink indicated that the well is over 50 feet deep. A confirmation letter sent to Delta by Mr. Brink is attached.]

Other reports and documents in the file supported information that was previously provided.

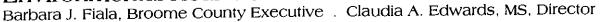
Broome County Library, County Historian's Office. Reports and documents provided by this office supported information that was previously provided.

City of Binghamton Parks and Recreation Department (John C. Whalen, Director). Mr. Whalen stated that landfill waste (primarily leather scrap from the old Endicott Johnson plant) was encountered when installing the baseball field backstop (north of the Plaza). He indicated that the entire park to the north of the Plaza is underlain by landfill waste.

NYSDEC Region 7 Kirkwood Office. Reviewed all NYSDEC files, which included site investigation reports for the McDonalds parcel to the south and the Cheri Lindsey Park to the north. Significant contamination was detected on both parcels in soil and groundwater. The only data available for the subject property was Corp of Engineers borings from the 1948 Flood Control project that indicated that the property is underlain by a thin (less than five feet) silt and clay layer, followed by a thick sand and gravel unit. Chris Warner of NYSDEC stated during the visit that there are no known spills associated with the Kwik Fill gas station (located east of the plaza across West State Street) and that there are "old tanks in the ground" at the closed station on the Howard property immediately adjacent to the subject Site. Other reports and documents in the file supported information that was previously provided.

<u>US Soil Conservation Service, Broome County Office.</u> Air photographs viewed in this office supported information that was previously provided.

Broome County Health Department Environmental Health Services





225 Front Street . Binghamton, New York 13905 (607) 778-2887 , Fax (607) 778-3912 . Website: www.gobroomecounty.com

May 19, 2005

James Blasting General Manager Delta Environmental Consultants 104 Jamesville Road Syracuse, NY 13214

RE: Binghamton Olmstead Well

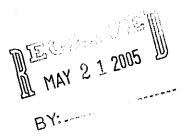
Dear Mr. Blasting:

As you requested, I have researched information on the City of Binghamton Olmstead Well.

- (1) Drilled 1965
- (2) 12" casing diameter(3) 51 foot well depth
- (4) 36 foot casing depth
- (4a) well screen likely from 36 to 51 feet bgs.
- (5) 840' MSL altitude
- (6) Water level-17 feet bgs.
- (7) 708 gpm yield (max)
- (8) 14' draw down @ max yield
- (9) No boring log available
- (10) Well production 4/05 (avg. daily) 5511 g.
 - Well production 3/05 (avg. daily) -5437 g.
 - Well production 2/05 (avg. daily) 4012 g.
 - Well production 1/05 (avg. daily) 3940 g.
 - Well production 12/04 (avg. daily) 4834 g.

 - Well production 11/04 (avg. daily) -2652 g. Well production 10/04 (avg. daily) – 2812 g.

 - Well production 9/04 (avg. daily) 4523 g.
 - Well production 8/04 (avg. daily) 2820 g.
 - Well production 6/04 (avg. daily) 3477 g. Well production 5/04 (avg. daily) - 3986 g.
- (11) Multiple TCE and 1,1 DCA hits from 2000-2005, all less than 1 ppb concentration.
- (12) Binghamton gets most of its water from the Susquehanna River.



(13) A capture zone map is attached. You can see that most of the water produced at the Olmstead Well is induced recharge from the Chenango River.

I hope this helps. Feel free to give me a call at 607-778-2806 if there are any questions.

Sincerely,

Ronald S. Brink

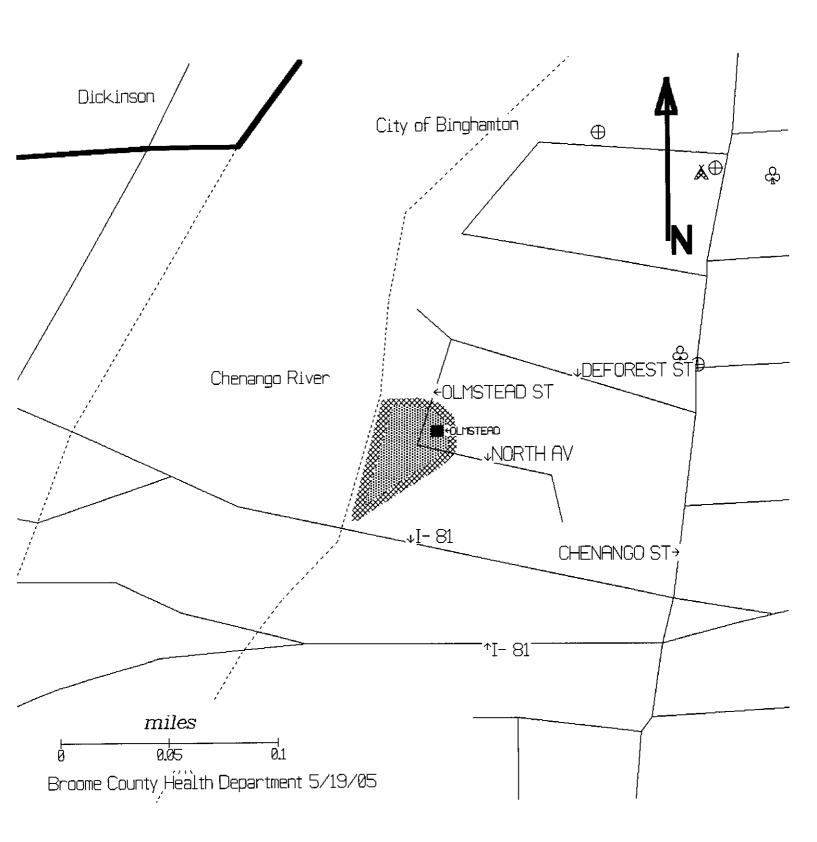
Groundwater Management Specialist

Conal Sing

RSB/rd

Enclosure

cc: File





'Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Mark J Schumacher

InteGreyted Consultants, LLC

104 Jamesville Road

Syracuse, NY 13214

Order Date: 1/12/2005

Inquiry #: 1341121.2S

P.O. #: NA

Site Name: Binghamton Plaza

Address: 33 West State Street

City/State: Binghamton, NY 13901 Customer Project: 0412017P

1032871ERK

315-445-0224

Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1918 - 1 - map

1950 - 1 - map

1952 - 1 - map

1970 - 1 - map

Total Maps: 4

Completion Date: 1/13/2005

Limited Permission to Photocopy

InteGreyted Consultants, LLC (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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Map iD Direction Distance Distance (ft.) Elevation Site MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

D14 East PENSKE TRUCK LEASING CO LP

42 FREDERICK ST 1/4-1/2

BINGHAMTON, NY 13902

RCRA-SQG FINDS LTANKS

NY Spills

Other Commercial/Industrial

(607) 723-8393

Not reported

Not reported Not reported

Not reported

Not reported

n3

1000382751 NYD077303709

1354 ft. Relative:

Site 2 of 2 in cluster D

Lower

RCRAInfo:

Owner:

PENSKE TRUCK LEASING CO LP

Actual: 849 ft.

EPA ID:

(215) 775-6380 NYD077303709

Contact:

Not reported

Classification:

Small Quantity Generator

TSDF Activities: Not reported

Violation Status: No violations found

NY MANIFEST

Click this hyperlink while viewing on your computer to access additional NY MANIFEST detail in the EDR Site Report.

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

Notifier Extension:

SWIS:

Reported to Dept: 11/04/92 14:30

Region Close Date Not reported

Amount Spilled 1: Not reported

Resource Affected: On Land

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Resource Conservation and Recovery Act Information system

SPILLS:

ID:

Spill Number:

9209054

Spill Date:

11/04/1992 13:00

Not reported

Dt Call Received: Not reported Material Spilled 1 :Not reported Spill Cause: Other

Water Affected:

Not reported Facility Contact: Not reported

Investigator: Caller Name: **CWA**

Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported Not reported

PBS:

Spiller Contact: Not reported Spiller: PENSKY TRUCK LEASING

Spiller Address:

42 FREDRICK ST

BINGHAMTON, NY 13902

Not reported

DEC Remarks: Remark:

Not reported

Spill Class:

Known release with minimal potential for fire or hazard. No DEC

Response. No corrective action required.

Tank Test:

PBS Number: Tank Number:

Not reported Test Method: Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Gross Leak Rate:

Material:

Material Class Type: Quantity Spilled:

Units: Unknown Qty Spilled: Not reported

Not reported

Not reported Not reported

Gallons

Nο

Map (D Direction Distance Distance (ft.) Elevation Site

MAP FINDINGS

Database(s)

Not reported

PBS Number:

Enforcement Date: / /

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency: Notifier Extension:

Spiller Phone:

SWIS:

Reported to Dept: 04/12/94 10:22

Date Call Received:Not reported

Amount Spilled 1: Not reported

UST Involvement: False

EDR ID Number EPA ID Number

PENSKE TRUCK LEASING CO LP (Continued)

1000382751

Quantity Recovered: Unknown Qty Recovered: False WASTE OIL Material:

Class Type: Petroleum

Chem Abstract Service Number: WASTE OIL Last Date: 09/27/1994 Num Times Material Entry In File: 9509

Material Class Type: Quantity Spilled: n Units: Gallons Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False WASTE OIL Material:

Class Type: Petroleum Chem Abstract Service Number: WASTE OIL Last Date: 09/27/1994

Num Times Material Entry In File: 9509

Spill Closed Dt: 02/16/93 Spill Notifier: Other

Cleanup Ceased: 12/16/92 Cleanup Meets Std:True Last Inspection: 11

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Dt/ / Invstgn Complete://

Spill Record Last Update: 03/22/93 Is Updated: False

Corrective Action Plan Submitted: 11 Date Spill Entered In Computer Data File: 11/05/92 Date Region Sent Summary to Central Office: / /

True Date:

Not reported

LTANKS:

Spill Number: 9400504 04/12/1994 10:00 Spill Date: Not reported

Material Spilled 1 :Not reported Region Close Dt : Not reported Resource Affectd: Groundwater

Spill Cause: Tank Test Failure Water Affected: Not reported Facility Contact: Not reported

Investigator: **CWA** Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Not reported Notifier Phone: PBS: Not reported

Spiller Contact: Not reported PENSKE TRUCKING Spiller: Spiller Address: 42 FREDRICK ST.

BINGHAMTON, NY

Known release with minimal potential for fire or hazard. DEC Response. Spill Class:

Willing Responsible Party, Corrective action taken.

Spill Closed Dt: Spill Notifier: DEC

Cleanup Ceased: / /

Last Inspection: 04/13/94

PBS Number:

Not reported

Other Commercial/Industrial

(607) 723-8391

Not reported

Not reported

Not reported

Not reported

Not reported

03

Map ID Direction Distance Distance (ft.) Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

PENSKE TRUCK LEASING CO LP (Continued)

Not reported

. 10K TANK.

DEC Remarks:

Spill Cause:

```
1000382751
Cleanup Meets Standard:
                            False
Recommended Penalty:
                            Penalty Not Recommended
Spiller Cleanup Date:
                            11
Enforcement Date:
                            11
Investigation Complete:
                            11
UST Involvement:
                            True
Spill Record Last Update:
                            06/16/94
is Updated:
                            False
Corrective Action Plan Submitted:
                                            11
True Date :
                            Not reported
Date Spill Entered In Computer Data File:
                                            04/13/94
Date Region Sent Summary to Central Office: / /
Tank Test:
  PBS Number:
                            Not reported
  Tank Number:
                            Not reported
  Test Method:
                            Not reported
  Capacity of Failed Tank:
   Leak Rate Failed Tank:
                            0.00
   Gross Leak Rate:
                            Not reported
   PB$ Number:
                            Not reported
                            Not reported
   Tank Number:
   Test Method:
                            Not reported
   Capacity of Failed Tank:
   Leak Rate Failed Tank:
                            0.00
   Gross Leak Rate:
                            Not reported
Material:
   Material Class Type:
                            1
   Quantity Spilled:
                            0
   Units:
                            Gallons
   Unknown Qty Spilled:
                            No
   Quantity Recovered:
                             0
   Unknown Qty Recovered:
                            False
                             DIESEL
   Material:
   Class Type:
                             Petroleum
   Chem Abstract Service Number:
                                             DIESEL
                                             07/28/1994
   Last Date:
                                             10625
   Num Times Material Entry In File:
   Material Class Type:
   Quantity Spilled:
                             ٥
   Units:
                             Gallons
   Unknown Qty Spilled:
                             No
   Quantity Recovered:
                             0
   Unknown Qty Recovered: False
                             DIESEL
   Material:
                             Petroleum
   Class Type:
   Chem Abstract Service Number:
                                             DIESEL
                                             07/28/1994
   Last Date:
   Num Times Material Entry In File:
                                             10625
```

TANK TEST FAILURE. SUSPECT LINE PROBLEM . TO EXCAVATE ISOLATE AND RETEST

Map ID Direction Distance Distance (ft.) Elevation Site

MAP FINDINGS

Database(s)

Other Commercial/Industrial

Not reported

Not reported

Not reported

Not reported

Not reported

03 Not reported EDR ID Number EPA ID Number

15

FISHER FUNERAL HOME

SSW 1/4-1/2

CHENANGO ST BINGHAMTON, NY LTANKS

\$102165569 NIA

1431 ft. Relative:

Higher

LTANKS:

Spill Number: Spill Date:

Investigator:

9708972 10/31/1997 12:00

Region of Spill:

Spill Source: Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

Notifier Extension:

SWIS:

Reported to Dept: 10/31/97 12:30 Date Call Received:Not reported Amount Spilled 1: Not reported

Actual: 861 ft.

Not reported Material Spilled 1 :Not reported Region Close Dt : Not reported

Resource Affectd: On Land Spill Cause: Taπk Failure Water Affected: Not reported Facility Contact:

Not reported GPS Not reported

Caller Name: Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported Spiller Contact: Not reported

FISHER FUNERAL HOME Spiller:

Spiller Address: Not reported

Spill Class:

Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party.

Corrective action taken.

12/09/97 Spill Closed Dt:

Spill Notifier: Responsible Party

PBS Number:

Not reported

Cleanup Ceased: / / Last Inspection: //

Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: 11 Enforcement Date: 11 Investigation Complete: 11 UST Involvement: False Spill Record Last Update: 12/09/97 Is Updated: False

Corrective Action Plan Submitted: 11

True Date : Not reported

Date Spill Entered In Computer Data File: 10/31/97 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled: n Gallons Units: Unknown Qty Spilled: No Quantity Recovered: 0 Unknown Qty Recovered: False WASTE OIL Material: Class Type: Petroleum

Map ID Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S102165569

FISHER FUNERAL HOME (Continued)

Chem Abstract Service Number:

Last Date:

WASTE OIL 09/27/1994

Num Times Material Entry In File:

9509

Material Class Type: Quantity Spilled:

Ð

Units:

Gallons

Unknown Qty Spilled:

No

Quantity Recovered:

0

Unknown Qty Recovered: False Material:

WASTE OIL

Class Type:

Petroleum

Chem Abstract Service Number:

WASTE OIL 09/27/1994

Last Date:

9509

Num Times Material Entry In File:

DEC Remarks: Not reported

Spill Cause:

tanks found during excavation will dig up and remove

16 ENE **HERTZ PENSKE** 42 FREDERICK ST. LTANKS S100158211

N/A

1442 ft.

1/4-1/2 **BINGHAMTON, NY**

Relative: Lower

LTANKS:

Spill Number:

8707867 12/11/1987 12:35

Region of Spill:

Amount Spilled 1: Not reported

(607) 723-8391

Not reported

Not reported

Not reported Not reported

Not reported

Not reported

03

Actual: 849 ft.

Spill Date: ID:

Not reported

Reported to Dept: 12/11/87 16:01

Spill Source:

Facility Tele: SWIS:

Caller Agency:

Caller Extension:

Notifier Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Date Call Received:Not reported

Other Commercial/Industrial

Material Spilled 1 Not reported Region Close Dt : Not reported

Resource Affectd: Groundwater

Spill Cause: Tank Test Failure

Water Affected:

Not reported

Facility Contact:

Not reported

GPA

Not reported

Caller Name: Caller Phone: Not reported Notifier Name: Not reported

Notifier Phone: Not reported

PBS: Spiller Contact:

Investigator:

Not reported Not reported

Spiller:

HERTZ PENSKE TRUCK RENTAL

Spiller Address:

42 FREDERICK ST.

BINGHAMTON, NY

Spill Class:

Not reported

Spill Closed Dt:

04/29/88

Spill Notifier:

Tank Tester

Cleanup Ceased: 04/29/88

Last Inspection: //

True

Cleanup Meets Standard: Recommended Penalty:

Penalty Not Recommended

Spiller Cleanup Date:

11

Enforcement Date: Investigation Complete:

II11

UST Involvement:

True

Spill Record Last Update:

05/27/88

Is Updated:

False

Corrective Action Plan Submitted:

11

True Date :

Not reported Date Spill Entered In Computer Data File:

01/05/88

Date Region Sent Summary to Central Office: / /

TC01341121.1r Page 21

Map ID Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

HERTZ PENSKE (Continued)

S100158211

```
Tank Test:
```

PBS Number:

Tank Number: Test Method:

Not reported Not reported Not reported

Capacity of Failed Tank: Leak Rate Failed Tank:

0.00 Not reported

Gross Leak Rate: PBS Number: Tank Number:

Test Method:

Not reported Not reported Not reported

Capacity of Failed Tank: Leak Rate Failed Tank:

0.00

Gross Leak Rate:

Not reported

Material:

Material Class Type:

Quantity Spilled: 0

Units:

Not reported

Unknown Qty Spilled: Quantity Recovered:

No

Unknown Qty Recovered: False Material:

GASOLINE Petroleum

Class Type: Chem Abstract Service Number:

GASOLINE 09/29/1994

Last Date: Num Times Material Entry In File:

21329

Material Class Type: Quantity Spilled:

Units:

Not reported

Unknown Qty Spilled: Quantity Recovered:

No O Unknown Qty Recovered: False

Material: Class Type: GASOLINE Petroleum

Chem Abstract Service Number: Last Date:

GASOLINE 09/29/1994

Num Times Material Entry In File:

21329

DEC Remarks:

Not reported

Spill Cause:

3,000 GAL. TANK SYSTEM FAILURE OF .436 GPH. RETESTED FAILED AGAIN. WILL

REMOVE PRODUCT.

Spill Number:

9208616

Region of Spill:

Spill Date: ID:

10/26/1992 12:00 Not reported

Reported to Dept: 10/26/92 13:10 Date Call Received:Not reported Amount Spilled 1: Not reported

Material Spilled 1 :Not reported Region Close Dt: Not reported Resource Affectd: On Land

Spill Cause:

Tank Overfill

Not reported

Spill Source: Facility Tele: Other Commercial/Industrial

Water Affected: Facility Contact:

Not reported

SWIS: Caller Agency: (607) 723-8391 03

Investigator: **CWA** Caller Name: Not reported Caller Phone: Not reported

Caller Extension:

Not reported Not reported Not reported

Notifier Name: Notifier Phone: PBS:

Not reported Not reported Not reported

Notifier Agency: Not reported Notifier Extension:

Spiller Contact:

Not reported PENSKE TRUCK RENTAL Spiller Phone:

Not reported

Spiller:

Map ID Direction Distance Distance (ft.) Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S100158211

HERTZ PENSKE (Continued)

42 FREDERICK ST. Spiller Address:

BINGHAMTON, NY 13901

Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party, Corrective action taken.

Spill Closed Dt: 02/16/93

Spill Notifier: Other

PBS Number:

Not reported

Cleanup Ceased: 12/16/92

Last Inspection: //

Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: **Enforcement Date:** IIInvestigation Complete: 11 **UST involvement:** False Spill Record Last Update: 03/22/93 Is Updated: False

Corrective Action Plan Submitted: 11

True Date : Not reported

Date Spill Entered In Computer Data File: 10/27/92 Date Region Sent Summary to Central Office: / /

Not reported

Not reported

Tank Test:

PBS Number:

Tank Number: Not reported Test Method: Not reported

Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported

Gross Leak Rate: Material:

Material Class Type:

Quantity Spilled:

0 Units: Gallons

Unknown Qty Spilled: Nα Quantity Recovered: Unknown Qty Recovered: False Material: DIESEL

Class Type: Petroleum

Chem Abstract Service Number:

DIESEL 07/28/1994 Last Date:

Num Times Material Entry In File: 10625

Material Class Type:

Quantity Spilled: 0

Units: Gallons

Unknown Qty Spilled: Nο Quantity Recovered: Unknown Qty Recovered: Faise DIESEL Material:

Class Type:

Petroleum

Chem Abstract Service Number:

Last Date:

DIESEL 07/28/1994 10625

Num Times Material Entry In File: Not reported

DEC Remarks: Spill Cause:

3-10K GALLON TANKS HAVING FILLS UPGRADED. CONTAMINATED SOIL FOUND AROUND

DIESEL FILL. SOIL BEING STOCKPILED ON PLASTIC FOR DISPOSAL. 1K WASTE OIL

TANK TO BE REMOVED AT A LATER DATE.

Map iD Direction Distance Distance (ft.) Site Elevation

MAP FINDINGS

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Notifier Extension:

SWIS:

Reported to Dept: 10/08/91 11:00

Date Call Received Not reported

Amount Spilled 1: Not reported

Database(s)

Other Commercial/Industrial

(607) 432-9274

Not reported

Not reported

Not reported

Not reported

Not reported

7-182788

03

LTANKS

EDR ID Number EPA ID Number

S100153251

N/A

17 SSW 1/4-1/2

RED BARREL- CHENANGO ST. CHENANGO / DOUBLEDAY ST.

BINGHAMTON, NY

1581 ft.

LTANKS:

Relative: Higher Actual:

869 ft.

ID:

Spill Number: 9107352 Spill Date:

10/08/1991 11:00 Not reported Material Spilled 1 Not reported

Region Close Dt : Not reported Resource Affectd: On Land Spill Cause: Tank Failure Not reported

Water Affected: Facility Contact: Not reported Investigator: **CWA** Caller Name: Not reported

Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported Spiller Contact: Not reported

Spiller: BETTIOL FUEL SERVICE INC. Spiller Address: RT 23 SOUTHSIDE

ONEONTA, NY 13820

Known release with minimal potential for fire or hazard. DEC Response. Spill Class:

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 01/27/92

Spill Notifier: Responsible Party

Cleanup Ceased: 01/16/92 Last Inspection: 10/08/91 Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: 11 **Enforcement Date:** IIInvestigation Complete: 11 **UST Involvement:** True Spill Record Last Update: 12/15/92 Is Updated: False Corrective Action Plan Submitted:

11

True Date : Not reported

Date Spill Entered In Computer Data File: 10/09/91 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Leak Rate Failed Tank: 0.00

Gross Leak Rate: Not reported PBS Number: Not reported Tank Number: Not reported Not reported Test Method:

Capacity of Failed Tank: Leak Rate Failed Tank: 0.00

Gross Leak Rate: Not reported

Material:

Material Class Type: 1 Quantity Spilled: 0

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MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

\$100153251

RED BARREL- CHENANGO ST. (Continued)

Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Chem Abstract Service Number:

GASOLINE 09/29/1994

Last Date: Num Times Material Entry In File:

21329

Material Class Type: 1
Quantity Spilled: 0
Units: Gall

Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Chem Abstract Service Number:

GASOLINE

Last Date: 09/29/1994 Num Times Material Entry In File: 21329

DEC Remarks: 01/16/92: DYER REMOVED CONTAMINATED SOIL TO BROOME COUNTY LANDFILL, NO F

URTHER ACTION.

Spill Cause: TANKS REMOVED . CONTAMINATED SOIL FOUND. EXCAVATED SOIL UNDER PUMP ISLAN

D AND BELOW TANK. APPEARED TO BE CONTAINED IN SOIL. STOCKPILED FOR DISP

OSAL

18 WNW 1/4-1/2 1752 ft.

351 FRONT STREET BINGHAMTON, NY LTANKS \$104619135 N/A

Relative: Lower LTANKS:

ID:

S

Spill Number: 8601766 Spill Date: 06/13/1986

8601766 06/13/1986 14:15 Not reported Region of Spill: 7
Reported to Dept: 06/13/86 15:30
Date Call Received:Not reported
Amount Spilled 1: Not reported

Actual: 847 ft.

Material Spilled 1 Not reported
Region Close Dt: Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported

Facility Contact: Not report Investigator: GPA
Caller Name: Not report Not Re

Caller Phone:

Not reported
Not reported
Not reported
Not reported

Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported
Spiller: TOM GALLENGER
Spiller Address: Not reported

Spiller Address: Not reported
Spill Class: Not reported
Spill Closed Dt: 08/11/87
Spill Notifier: Tank Tester

Cleanup Ceased: 08/11/87 Last Inspection: / /

Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: / / Enforcement Date: / / Spill Source: Gas Station Facility Tele: (607) 862-3850

SWIS: 03

Caller Agency: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported
Notifier Extension: Not reported

Spiller Phone:

Not reported

PBS Number:

Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S104619135

(Continued)

Investigation Complete: 11 UST involvement: True Spill Record Last Update: 06/02/87 is Updated: False

Corrective Action Plan Submitted:

11 True Date: Not reported

Date Spill Entered In Computer Data File: 07/09/86 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled:

Units: Not reported

Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False GASOLINE Material: Petroleum Class Type:

Chem Abstract Service Number: GASOLINE Last Date: 09/29/1994 21329

Num Times Material Entry In File: Material Class Type:

Quantity Spilled:

Units: Not reported

Unknown Qty Spilled: No Quantity Recovered: n Unknown Qty Recovered: Faise GASOLINE Material: Class Type: Petroleum

Chem Abstract Service Number: Last Date:

Num Times Material Entry In File:

DEC Remarks: Not reported

Spill Cause:

CONSIDERING UNCOVERING TANKS AND RETESTING TANKS

21329

GASOLINE 09/29/1994

E19 East 1/4-1/2 1831 ft. STOWE MANUFACTURING BRANDYWINE HWY, FACILITY **BINGHAMTON, NY**

Site 1 of 3 in cluster E

Relative: Lower

Actual:

849 ft.

LTANKS:

Spill Number:

9307633 Spill Date: 09/22/1993 13:00

Not reported

Material Spilled 1 Not reported Region Close Dt: Not reported Resource Affectd: Groundwater

Tank Failure Spill Cause:

Water Affected: Not reported Facility Contact: Not reported **CWA** Investigator:

Caller Name: Not reported Region of Spill:

Reported to Dept: 09/22/93 13:10 Date Call Received:Not reported Amount Spilled 1: Not reported

Spill Source:

Other Commercial/Industrial

LTANKS

Facility Tele:

(607) 723-6411 03

SWIS: Caller Agency:

Not reported

S100781800

N/A

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S100781800

STOWE MANUFACTURING (Continued)

Caller Phone:

Notifier Name:

Spill Class:

Caller Extension: Not reported Notifier Agency: Not reported Notifier Extension: Not reported

Not reported

Notifier Phone: Not reported PBS: Not reported Spiller Contact: Not reported

Not reported Spiller Phone: STOWE MANUFACTURING

Spiller: STOWE MAN Spiller Address: PO BOX 490

BINGHAMTON, NY 13902

Not reported

Not reported

Known release that creates potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 02/27/96

Spill Notifier: Responsible Party

PBS Number: Not reported

Cleanup Ceased: / / Last Inspection: / /

Cleanup Meets Standard: False

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 02/28/96
Is Updated: False

Corrective Action Plan Submitted: / /

True Date: Not reported

Date Spill Entered to Computer Date File: 09/29/6

Date Spill Entered in Computer Data File: 09/29/93
Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Other reported Gross Leak Rate: Not reported Not reported

Material:

Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329

Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329

DEC Remarks: 09/23/93: SOIL EXCAVATED AND STOCKPILED. REQUESTED MONITORING WELLS TO B

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

STOWE MANUFACTURING (Continued)

S100781800

E INSTALLED. SENT STOWE STIP, 2-27-96 SENT LETTER TO STOW STATING THAT

SPILL WOULD BE CONSIDERED INACTIVE.

1K FUEL OIL TANK AND 550 GALLON GAS TANK REMOVED. NO CONTAMINATION NOTED Spill Cause:

IN FUEL OIL TANK EXCAVATION. GASOLINE TANK EXCAVATION HAD CONTAMINATED S

Region of Spill:

Spill Source: Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Notifier Extension:

SWIS:

Reported to Dept: 10/24/89 11:30

Gas Station

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

03

(210) 750-6000

Date Call Received:Not reported

Amount Spilled 1: Not reported

OIL TO GROUNDWATER.

20 West HESS FRONT ST.

S100964943 LTANKS N/A

1/4-1/2 1840 ft. 341 FRONT ST. **BINGHAMTON, NY**

Relative: Lower

Actual:

843 ft.

LTANKS:

ID:

Spill Number:

Spill Date:

8907329

10/24/1989 11:00

Not reported

Material Spilled 1 Not reported Region Close Dt : Not reported Resource Affectd: On Land

Spill Cause:

Tank Failure Water Affected: Not reported Facility Contact: Not reported

Investigator: Caller Name:

CWA Not reported

Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported

Spiller: AMERADA HESS CORP.

Spiller Address: 1 HESS PLAZA

WOODBRIDGE, NJ 07095

Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 12/01/89 Spill Notifier: Other

Cleanup Ceased: 11/28/89 Last Inspection: 10/25/89

Cleanup Meets Standard:

Recommended Penalty:

True

Penalty Not Recommended 11

11

11

True

False

12/01/89

11

Spiller Cleanup Date: Enforcement Date: Investigation Complete:

UST Involvement: Spill Record Last Update: Is Updated:

Corrective Action Plan Submitted:

True Date: Not reported Date Spill Entered in Computer Data File:

10/25/89 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Tank Number:

Not reported Not reported Not reported Not reported

Test Method: Capacity of Failed Tank: Leak Rate Failed Tank:

Not reported

Gross Leak Rate: Material:

Not reported

Material Class Type:

Quantity Spilled:

1 n

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MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S100964943

HESS FRONT ST. (Continued)

Units:

Gallons

Unknown Qty Spilled: Quantity Recovered:

No 0

Unknown Qty Recovered: False

GASOLINE

Material: Class Type:

Petroleum

Chem Abstract Service Number:

GASOLINE

Last Date:

09/29/1994

Num Times Material Entry In File:

21329

Material Class Type:

Quantity Spilled:

Units:

Gallons

Unknown Qty Spilled:

Quantity Recovered:

No

Unknown Qty Recovered: False

Material:

Class Type:

GASOLINE Petroleum

Chem Abstract Service Number:

GASOLINE

Last Date:

09/29/1994

Num Times Material Entry In File:

21329

DEC Remarks:

10/25/89: CONTAMINATED SOIL REMOVED DURING TANK RMOVALS AND STOCKPILED O N PLASTIC. 10/25/89: CONTAMINATED SOIL REMOVED DURING TANK RMOVALS AND S

TOCKPILED ON PLASTIC. CONTAMINATED SOIL REMOVED TO LANDFILL ON 11-28 BY

GARY DYER, ENVIRONMENTALLY COMPLETE.

Spill Cause:

CONTAMINATED SOIL NOTICED DURING REMOVAL OF UNDERGROUND TANKS.

21 West 1/4-1/2 1879 ft. ARCO 341 FRONT ST. 341 FRONT ST.

LTANKS \$100127855

N/A

Relative:

BINGHAMTON, NY

Lower

Actual:

838 ft.

LTANKS:

Spill Number:

8900400

Region of Spill:

Spili Date:

04/12/1989 10:23

Reported to Dept: 04/12/89 11:18

ID:

Not reported Material Spilled 1 Not reported Date Call Received Not reported Amount Spilled 1: Not reported

Resource Affectd: Groundwater

Region Close Dt : Not reported

Spill Cause:

Tank Test Failure

Water Affected: Not reported

Not reported

Spill Source: Facility Tele:

Gas Station

Facility Contact: Investigator:

GPA

SWIS:

Not reported 03

Caller Name:

Not reported

Caller Agency:

Notifier Agency:

Not reported

Caller Phone:

Not reported Caller Extension:

Not reported Not reported

Notifier Name: Notifier Phone: Not reported Not reported

Notifier Extension: Not reported

PBS: Spiller Contact: Not reported Not reported

Spiller Phone:

Not reported

Spiller: Spiller Address: ARCO 60092

SOUTHEASTERN, PA

Spill Class:

Known release that creates potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 10/30/89

Spill Notifier:

Responsible Party

PBS Number:

Cleanup Ceased: 10/23/89

Last Inspection: 04/12/89

Cleanup Meets Standard: Recommended Penalty:

Spiller Cleanup Date:

Penalty Not Recommended

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S100127855

ARCO 341 FRONT ST. (Continued)

```
Enforcement Date:
Investigation Complete:
UST involvement:
                           True
                           07/22/96
Spill Record Last Update:
is Updated:
                           False
Corrective Action Plan Submitted:
                                            11
True Date:
                           Not reported
                                            06/02/89
Date Spill Entered In Computer Data File:
Date Region Sent Summary to Central Office: / /
Tank Test:
  PBS Number:
                            7-460338
                            Not reported
  Tank Number:
  Test Method:
                            Not reported
  Capacity of Failed Tank:
                            Ω
  Leak Rate Failed Tank:
                            0.00
  Gross Leak Rate:
                            Not reported
                            7-408581
  PBS Number:
                            Not reported
  Tank Number:
  Test Method:
                            Not reported
  Capacity of Failed Tank:
                            0.00
   Leak Rate Failed Tank:
                            Not reported
   Gross Leak Rate:
 Material:
   Material Class Type:
   Quantity Spilled:
                            0
   Units:
                             Gallons
   Unknown Qty Spilled:
                            No
   Quantity Recovered:
   Unknown Qty Recovered: False
   Material:
                             GASOLINE
   Class Type:
                             Petroleum
   Chem Abstract Service Number:
                                             GASOLINE
                                             09/29/1994
   Last Date:
   Num Times Material Entry In File:
                                             21329
   Material Class Type:
   Quantity Spilled:
                             n
   Units:
                             Gallons
   Unknown Qty Spilled:
                             No
   Quantity Recovered:
                             0
   Unknown Qty Recovered: False
                             GASOLINE
   Material:
                             Petroleum
   Class Type:
                                             GASOLINE
   Chem Abstract Service Number:
                                             09/29/1994
   Last Date:
   Num Times Material Entry In File:
                                             21329
 DEC Remarks:
                  Not reported
```

```
LTANKS $104619109
N/A
```

E22 East

73 FREDERICK ST-REG9DTSHP

1/4-1/2 BINGHAMTON (C), NY 1904 ft.

Relative:

Site 2 of 3 in cluster E

Spill Cause:

Lower

LTANKS:

Spill Number:

Number: 8600015

Actual: 849 ft.

Spill Date: 03/31/1986 04:30 ID: Not reported Material Spilled 1 Not reported

36 04:30

LINE LEAK ON 8K UNLEADED.

Reported to Dept: 04/01/86 11:35 Date Call Received:Not reported Amount Spilled 1: Not reported

Region of Spill:

MAP FINDINGS

Database(s)

EDR ID Number EPA 1D Number

S104619109

(Continued)

Region Close Dt : Not reported Resource Affectd: In Sewer Spill Cause: Tank Failure Other Non Commercial/Industrial CHENANGO RIVER Spill Source: Water Affected: Facility Tele: Not reported Facility Contact: Not reported 03 Investigator: **GPA** SWIS: Not reported Caller Agency: Caller Name: Not reported Not reported Caller Phone: Not reported Caller Extension: Not reported Notifier Name: Not reported Notifier Agency: Notifier Phone: Not reported Notifier Extension: Not reported PBS: Not reported Not reported Spiller Contact: Spiller Phone: Not reported NYS DOT Spiller: 73 FREDERICK ST. Spiller Address: BINGHAMTON, NY Spill Class: Not reported Spill Closed Dt: 08/10/87 Not reported Spill Notifier: Responsible Party PBS Number: Cleanup Ceased: 08/10/87 Last Inspection: // Cleanup Meets Standard: True Recommended Penalty: Penalty Not Recommended Spiller Cleanup Date: 11 **Enforcement Date:** 11 Investigation Complete: 11 UST Involvement: False Spill Record Last Update: 06/02/87 Is Updated: False 11 Corrective Action Plan Submitted: True Date : Not reported 04/15/86 Date Spill Entered In Computer Data File: Date Region Sent Summary to Central Office: / / Tank Test: PBS Number: Not reported Tank Number: Not reported Not reported Test Method: Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported Material: Not reported Material Class Type: Quantity Spilled: Not reported Units: Not reported Unknown Qty Spilled: Not reported Quantity Recovered: Not reported Unknown Qty Recovered: Not reported Material: Not reported Class Type: Not reported Chem Abstract Service Number: Not reported Not reported Last Date:

> Not reported 10/03/95: This is additional information about material spilled from th

e translation of the old spill file: NAPTHA CLEANED TANK PARTS-PUT SPEEDI DRY

Num Times Material Entry In File:

DEC Remarks:

Spill Cause:

MAP FINDINGS

Database(s)

EDR ID Number EPA 1D Number

E23 East 1/4-1/2 FREDERICK ST **DOT GARAGE BINGHAMTON, NY** **LTANKS**

Other Non Commercial/Industrial

Not reported

Not reported Not reported

Not reported

Not reported

7-389730

03 Not reported S101508816 N/A

1904 ft.

Site 3 of 3 in cluster E

Relative: Lower

LTANKS:

Spill Number: Spill Date:

9500688

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

Notifier Extension:

SWIS:

Reported to Dept: 04/17/95 12:00 Date Call Received:Not reported

Amount Spilled 1: Not reported

Actual: 849 ft.

04/14/1995 12:00 Not reported

Material Spilled 1 Not reported

Region Close Dt : Not reported Resource Affectd: Groundwater Spill Cause: Tank Failure Not reported

Water Affected: Facility Contact:

Investigator: **CWA** Caller Name: Not reported Caller Phone: Not reported

Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported NYS DOT Spiller:

Spiller Address: Not reported

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 04/05/96

Spill Notifier: Affected Persons Cleanup Ceased: / /

PBS Number:

Last Inspection: //

Cleanup Meets Standard: False

Recommended Penalty: Penalty Recommended Spiller Cleanup Date:

11 **Enforcement Date:** 11 Investigation Complete: IIUST Involvement: True 10/28/96 Spill Record Last Update: Is Updated: False

Corrective Action Plan Submitted: 11 True Date : Not reported

Date Spill Entered In Computer Data File:

04/18/95 Date Region Sent Summary to Central Office: 10/28/96

Tank Test:

PBS Number: Tank Number: Test Method:

Not reported Not reported Not reported

0.00

0.00

1

0

Capacity of Failed Tank: Leak Rate Failed Tank: Gross Leak Rate:

Not reported PBS Number: Not reported Tank Number: Not reported Test Method:

Capacity of Failed Tank: Leak Rate Failed Tank:

Not reported

Gross Leak Rate:

Not reported

Material:

Material Class Type: Quantity Spilled:

MAP FINDINGS

Database(s)

FOR ID Number EPA ID Number

S101508816

FREDERICK ST (Continued)

Units: Pounds Unknown Qty Spilled: No Quantity Recovered:

Unknown Qty Recovered: False

Material: Class Type: GASOLINE Petroleum

Chem Abstract Service Number:

GASOLINE 09/29/1994 21329

Last Date: Num Times Material Entry In File:

Material Class Type:

Quantity Spilled: Units: Unknown Qty Spilled:

Pounds No

Quantity Recovered: Unknown Qty Recovered: False

Material: Class Type: GASOLINE Petroleum

Chem Abstract Service Number:

GASOLINE 09/29/1994

21329

Last Date: Num Times Material Entry In File:

DEC Remarks: Spill Cause:

Not reported Not reported

24 East

1/4-1/2

DOT - FREDERICK ST. 73 FREDERICK ST. BINGHAMTON, NY

LTANKS S100129452 N/A

1999 ft. Relative:

LTANKS:

Lower

Spill Number: Spill Date:

8710801 03/25/1988 18:30

Region of Spill: Reported to Dept. 03/25/88 18:42 Date Call Received:Not reported

Actual: 849 ft.

ID: Not reported Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd: Groundwater

Spill Cause: Tank Test Failure Water Affected: Not reported Facility Contact: Not reported

Investigator: **GPA** Caller Name: Not reported Not reported

Caller Phone: Notifier Name: Not reported Notifier Phone: Not reported Not reported

PBS: Not reported Spiller Contact:

NYS DOT Spiller:

Spiller Address: 73 FREDERICK ST. BINGHAMTON, NY

Spill Class: Not reported Spill Closed Dt: 06/10/88

Spill Notifier: Tank Tester Cleanup Ceased: 06/10/88

Last Inspection: / / Cleanup Meets Standard:

Recommended Penalty: Spiller Cleanup Date:

Penalty Not Recommended 11

True

Enforcement Date: 11 Investigation Complete: 11 UST Involvement: True

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

Notifier Extension:

SWIS:

Amount Spilled 1: Not reported

03

Other Non Commercial/Industrial

PBS Number:

Not reported

MAP FINDINGS

Database(s)

FDR ID Number EPA ID Number

\$100129452

DOT - FREDERICK ST. (Continued)

Spill Record Last Update:

Is Updated: False Corrective Action Plan Submitted: 11

True Date : Not reported

Date Spill Entered In Computer Data File: 04/01/88 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: 7-103209 Tank Number: Not reported

Not reported Test Method: Capacity of Failed Tank:

Leak Rate Failed Tank: 0.00 Gross Leak Rate: Not reported PBS Number: 7-121975 Not reported Tank Number: Not reported Test Method:

Capacity of Failed Tank: Leak Rate Failed Tank: 0.00

Gross Leak Rate: Not reported

Material:

Material Class Type: 1 Quantity Spilled: 0

Units: Not reported

Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False Material: GASOLINE Class Type: Petroleum

Chem Abstract Service Number:

GASOLINE 09/29/1994 Last Date: Num Times Material Entry In File: 21329

Material Class Type: Quantity Spilled:

Units: Not reported Unknown Qty Spilled: No

Quantity Recovered: Unknown Qty Recovered: False GASOLINE Material: Class Type: Petroleum

Chem Abstract Service Number: GASOLINE 09/29/1994 Last Date: Num Times Material Entry In File: 21329

DEC Remarks: Not reported

Spill Cause: 10880 GPH LEAK RATE ON 2,000 GAL, TANK

Region of Spill: Spill Number: 9505820

Reported to Dept: 08/11/95 10:20 Spill Date: 08/11/1995 10:15 Date Call Received:Not reported Not reported ID: Material Spilled 1 Not reported Amount Spilled 1: Not reported

Region Close Dt : Not reported Resource Affectd: On Land Spill Cause:

Tank Test Failure Water Affected: Not reported

Spill Source: Facility Contact: Not reported Facility Tele: Not reported

SWIS: 03Investigator: **CWA**

Not reported Caller Agency: Not reported Caller Name: Caller Extension: Not reported Caller Phone: Not reported

Other Non Commercial/Industrial

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S100129452

DOT - FREDERICK ST. (Continued)

Notifier Name:

Notifier Phone:

Spill Class:

Not reported Notifier Agency: Notifier Extension: Not reported

PBS Number:

PBS: Not reported Spiller Contact: Not reported

Spiller Phone:

Not reported

Not reported

Spiller: NYSDOT

73 FREDERICK ST. Spiller Address:

Not reported

Not reported

BINGHAMTON, NY 13901

Known release that creates potential for fire or hazard. DEC Response.

Unable/unwilling Responsible Party. Corrective action taken. (ISR)

Spill Closed Dt: 10/06/95 Spill Notifier: Tank Tester

Cleanup Ceased: 10/06/95

Last Inspection: // Cleanup Meets Standard: True

Recommended Penalty:

Penalty Not Recommended Spiller Cleanup Date: 11

Enforcement Date: 11 Investigation Complete: 11 UST Involvement: Faise Spill Record Last Update: 10/06/95 False Is Updated:

Corrective Action Plan Submitted:

11 True Date : Not reported

Date Spill Entered In Computer Data File: 08/16/95 Date Region Sent Summary to Central Office: 10/06/95

Tank Test:

PBS Number. Not reported Tank Number: Not reported

Not reported Test Method: Capacity of Failed Tank:

Leak Rate Failed Tank: 0.00 Gross Leak Rate: Not reported PBS Number: Not reported

Not reported Tank Number: Test Method: Not reported Capacity of Failed Tank:

Leak Rate Failed Tank: 0.00

Gross Leak Rate:

Not reported

Material:

Material Class Type: 1 Quantity Spilled:

n Gallons Units: Unknown Qty Spilled: No

Quantity Recovered: Unknown Qty Recovered: False #4 FUEL OIL Material:

Petroleum Class Type: Chem Abstract Service Number:

Last Date:

12/05/1994 Num Times Material Entry In File: 1751

#4 FUEL OIL

Material Class Type:

0 Quantity Spilled: Units: Gallons Unknown Qty Spilled: Νo

Quantity Recovered: Unknown Qty Recovered: False

Material:

#4 FUEL OIL

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

DOT - FREDERICK ST. (Continued)

S100129452

Class Type:

Petroleum

Chem Abstract Service Number: Last Date:

#4 FUEL OIL 12/05/1994

Num Times Material Entry In File:

1751

DEC Remarks:

08/15/95: DOT TO HAVE TANK REMOVED. CONTAMINATED SOIL AND PRODUCT FOUND IN BOTTOM OF EXCAVATION, 08/17/95; DOT DOES NOT HAVE THE FUNDS AVAILABLE TO HAVE THE TANK REMOVED, SPOKE TO MARTY DEPAOLO FROM OGS ALBANY. HE SAI

D TO HIRE A CONTRACTOR TO DO THEWORK, HIRED GARY DYER TO DO WORK.

Spill Cause:

TANK TOP EXCAVATED. TANK PUMPED OUT.

F25

ESE 1/4-1/2 2232 ft.

KEYSTONE CC 7 WALTER AVE LTANKS \$100127881

N/A

BINGHAMTON, NY

Site 1 of 2 in cluster F

Relative: Lower

Actual:

849 ft.

LTANKS:

Spill Number:

0308133

Not reported

Tank Number: Test Method:

Not reported

Spill Date: ID:

10/31/03 31896

Material Spilled 1 #2 FUEL OIL

Region Close Dt: / /

Resource Affectd: GROUNDWATER Spill Cause: TANK FAILURE Water Affected: Not reported

Spill Number: Spill Date:

8900945 04/25/1989 17:00

ID: Not reported Material Spilled 1 Not reported Region Close Dt : Not reported

Resource Affectd: On Land Tank Test Failure

Spill Cause: Water Affected:

Not reported Not reported Facility Contact: CWA

Investigator: Caller Name:

Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported

PBS: Spiller Contact:

Spiller:

Spiller Address:

300 OAK STREET PITTSTON, PA 18640 Not reported

Responsible Party

12/12/89

Not reported

Not reported

KEYSTONE COCO-COLA

True

11

11

11

True 04/26/90

Penalty Not Recommended

Spill Class: Spill Closed Dt: Spill Notifier:

Cleanup Ceased: 12/12/89 Last Inspection: 12/12/89

Cleanup Meets Standard:

Recommended Penalty:

Spiller Cleanup Date: **Enforcement Date:**

Investigation Complete: **UST Involvement:**

Spill Record Last Update:

Region of Spill: Tank Size:

Not reported Not reported

Leak Rate: Reported to Dept: // Date Call Received:10/31/03

Amount Spilled 1: Unknown Gal.

OTHER COMM/INDUSTRIAL

Spill Source:

Region of Spill:

Reported to Dept: 05/01/89 14:02 Date Call Received:Not reported Amount Spilled 1: Not reported

Spill Source:

Other Commercial/Industrial (717) 655-2874

Facility Tele: SWIS:

03

Caller Agency: Caller Extension: Notifier Agency: Notifier Extension:

Not reported Not reported Not reported Not reported

Spiller Phone:

PBS Number:

Not reported

7-008230

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

\$100127881

KEYSTONE CC (Continued)

False

Corrective Action Plan Submitted: 11

True Date : Not reported

Date Spill Entered In Computer Data File: 05/10/89 Date Region Sent Summary to Central Office: / /

Tank Test:

Is Updated:

PBS Number: Tank Number:

Test Method:

Test Method:

Class Type:

7-433101 Not reported Not reported

Capacity of Failed Tank: Leak Rate Failed Tank: 0.00

Gross Leak Rate: PBS Number: Tank Number:

Not reported 7-298557 Not reported Not reported

Capacity of Failed Tank: Leak Rate Failed Tank: 0.00 Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled: 0 Gallons Units: Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False Material: GASOLINE

Chem Abstract Service Number: Last Date:

GASOLINE 09/29/1994

21329

Num Times Material Entry In File:

Petroleum

Material Class Type: Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False Material: GASOLINE Class Type: Petroleum

Chem Abstract Service Number: GASOLINE 09/29/1994 Last Date: Num Times Material Entry In File: 21329

06/30/89: ALTHOUGH TANK PASSED PETRO-TITE TEST IT WILL BE REMOVED ANYWAY DEC Remarks:

KEYSTONE COCA-COLA TO CONTACT D.E.C. ON REMOVAL TIME, 12/12/89: ENVIRO NMENTAL OIL ON SITE REMOVING TANK. NO CONTAMINATION NOTICED IN EXCAVATIO

N. ENVIRONMENTALLY COMPLETE.

Spill Cause:

FAILED PETRI-TITE TEST

Spill Number:

9107104

Region of Spill:

10/01/1991 14:45 Spill Date: Not reported ID: Material Spilled 1 Not reported

Reported to Dept: 10/01/91 14:45 Date Call Received:Not reported Amount Spilled 1: Not reported

Region Close Dt : Not reported Resource Affectd; On Land

Spill Cause: Tank Overfill Water Affected:

Other Commercial/Industrial Not reported Spill Source: Not reported Facility Contact: Facility Tele: (607) 723-5311

SWIS: 03 Investigator: JOA

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

KEYSTONE CC (Continued)

Not reported Caller Name: Not reported Caller Agency: Caller Phone: Not reported Caller Extension: Notifier Agency: Notifier Name: Not reported Notifier Extension: Not reported Notifier Phone: Not reported

PBS: Not reported Spiller Phone: Spiller Contact: Not reported Spiller:

7 WALTERS AVE. Spiller Address:

Spill Class:

Spill Notifier: Responsible Party

Cleanup Ceased: 04/24/92

Last Inspection: 10/02/91 Cleanup Meets Standard:

Spiller Cleanup Date: Enforcement Date: 11 Investigation Complete: 11 **UST Involvement:** True Spill Record Last Update: 04/24/92 Is Updated: False

11 Corrective Action Plan Submitted:

10/03/91 Date Spill Entered In Computer Data File:

Tank Test:

Test Method:

Not reported

Capacity of Failed Tank: 0.00 Leak Rate Failed Tank:

Gross Leak Rate: Not reported PBS Number: Not reported Tank Number: Not reported Not reported Test Method:

Capacity of Failed Tank:

Gross Leak Rate: Not reported

Material Class Type:

PBS Number:

1 Quantity Spilled: 0 Units: Unknown Qty Spilled: No

Quantity Recovered: Unknown Qty Recovered: False Material: GASOLINE Petroleum Class Type:

Chem Abstract Service Number:

Last Date: 09/29/1994

Num Times Material Entry In File:

Material Class Type: Quantity Spilled: 0 Units: Gallons

Quantity Recovered: 0

TC01341121.1r Page 38

S100127881

Not reported Not reported

Not reported

COCA COLA CO.

BINGHAMTON, NY

Known release that creates potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 04/24/92

7-008230 PBS Number:

True

Recommended Penalty: Penalty Not Recommended

True Date : Not reported

Date Region Sent Summary to Central Office: / /

Tank Number:

Not reported

7-186546

0.00 Leak Rate Failed Tank:

Material:

Gallons

GASOLINE

21329

Unknown Qty Spilled: Νo

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

KEYSTONE CC (Continued)

Unknown Qty Recovered: False

Material:

Petroleum

Class Type: Chem Abstract Service Number:

Last Date:

09/29/1994

Num Times Material Entry In File:

DEC Remarks:

Spill Cause:

6K GAS TANK REMOVED. CONTAMINATED SOIL FOUND AROUND FILL PIPE.20-30 YDS.

Region of Spill:

Spill Source: Facility Tele:

Caller Agency: Caller Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Notifier Extension:

SWIS:

Reported to Dept: 09/08/97 14:05

Date Call Received:Not reported Amount Spilled 1: Not reported

SOIL UNDER TANK CONTAINED NO PETROLEUM ODORS.

26

S104619425

67 WHITNEY AV Fast 1/4-1/2

2264 ft.

BINGHAMTON, NY

Lower

Actual:

850 ft.

Spill Number: Spill Date:

09/08/1997 13:00

Material Spilled 1 Not reported

Resource Affectd: On Land

Tank Failure Spill Cause: Water Affected: Not reported

Facility Contact: Not reported Investigator: JOS

Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported Not reported PBS:

Spiller Contact:

ART TOTENZIANO

Spiller:

ART TOTENZIANO - OWNER

Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Spill Closed Dt: 10/20/97

Spill Notifier:

Cleanup Ceased: / /

Cleanup Meets Standard:

Recommended Penalty:

Spiller Cleanup Date:

Enforcement Date: Investigation Complete:

UST involvement: Spill Record Last Update:

Is Updated: Corrective Action Plan Submitted:

True Date: Not reported

Date Spill Entered In Computer Data File: Date Region Sent Summary to Central Office: / /

PBS Number: Tank Number: Not reported

Test Method:

Not reported Not reported

Capacity of Failed Tank: Leak Rate Failed Tank:

Not reported Not reported

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S100127881

GASOLINE

GASOLINE

Not reported

21329

LTANKS

Other Commercial/Industrial

Not reported

Not reported

Not reported

Not reported

Not reported

(607) 722-9540

Not reported

03

N/A

Relative:

LTANKS:

9706811

Not reported

Region Close Dt: Not reported

Spiller Address: Not reported

Willing Responsible Party. Corrective action taken.

Other

Last Inspection: 09/23/97

True Penalty Not Recommended

11 11 False 01/21/98

False

09/08/97

11

Tank Test:

Not reported

Gross Leak Rate:

MAP FINDINGS

#2 FUEL OIL

#2 FUEL OIL

SEVERAL UST S UNCOVERED AT THE LOT - REQ A RESPONSE TO THE SITE

12/07/1994

24464

12/07/1994

24464

Database(s)

EDR ID Number EPA ID Number

\$104619425

1000193267

NYD095567947

RCRA-SQG

FINDS

LTANKS

UST

(Continued)

Material:

Material Class Type:

Quantity Spilled:

Units:

Unknown Qty Spilled: Quantity Recovered:

Unknown Qty Recovered: False Material:

Class Type:

Chem Abstract Service Number:

Last Date: Num Times Material Entry In File:

0

Νo

Gallons

#2 FUEL OIL

Petroleum

Gallons

#2 FUEL OIL

Νo

0

Material Class Type: Quantity Spilled:

Units: Unknown Qty Spilled:

Quantity Recovered: Unknown Qty Recovered: False Material:

Class Type: Petroleum Chem Abstract Service Number:

Last Date:

Num Times Material Entry In File:

TANKS REMOVED, SOIL SAMPLES TAKEN, LOW LEVEL CONTAMINATION FOUND, NFA. J DEC Remarks:

Spill Cause:

ROADWAY EXPRESS INC ESE **57 WHITNEY AVE**

1/4-1/2 2288 ft. BINGHAMTON, NY 13901

Classification:

Relative:

Lower

RCRAInfo: Owner:

ROADWAY EXPRESS (212) 555-1212

NYD095567947

Actual: 850 ft.

EPA ID:

Contact: Not reported

TSDF Activities: Not reported

Violation Status: No violations found

Other Pertinent Environmental Activity Identified at Site:

Small Quantity Generator

Resource Conservation and Recovery Act Information system

LTANKS:

Spill Number: Spill Date:

9107772

10/21/1991 10:30

Not reported Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd: Groundwater Spill Cause: Tank Failure Water Affected: Not reported

Not reported Facility Contact: Investigator: **CWS**

Caller Name: Not reported Region of Spill:

Reported to Dept: 10/21/91 10:30 Date Call Received:Not reported Amount Spilled 1: Not reported

Spill Source: Facility Tele:

(607) 723-7326

SWIS: 03

Caller Agency:

Not reported

Other Commercial/Industrial

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

ROADWAY EXPRESS INC (Continued)

Caller Extension: Not reported Notifier Agency: Notifier Extension: Not reported

Notifier Phone: PBS: Spiller Contact:

Not reported Not reported

Not reported

Not reported

Not reported

ROADWAY EXPRESSING.

Spiller: Spiller Address:

Caller Phone:

Notifier Name:

Spill Class:

Known release that creates potential for fire or hazard. DEC Response.

Spill Closed Dt: 04/03/96

Spill Notifier:

DEC

7-033677

Cleanup Ceased: / / Last Inspection: 11

Spiller Cleanup Date:

Cleanup Meets Standard: False

Recommended Penalty: Penalty Not Recommended

11

Enforcement Date: Investigation Complete: **UST Involvement:**

11 True 04/03/96 False

Spill Record Last Update: Is Updated:

11 Corrective Action Plan Submitted:

True Date : Not reported

Date Spill Entered In Computer Data File: 10/22/91

Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Tank Number: Test Method:

Not reported Not reported Not reported

Capacity of Failed Tank:

Leak Rate Failed Tank: 0.00 Not reported Gross Leak Rate:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported

Capacity of Failed Tank: Leak Rate Failed Tank: Gross Leak Rate:

Not reported

Material:

Material Class Type: Quantity Spilled:

0 Gallons

0.00

Units: Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False Material: DIESEL

Class Type: Petroleum Chem Abstract Service Number:

DIESEL

Last Date: Num Times Material Entry In File: 07/28/1994 10625

Material Class Type: Quantity Spilled: Units:

0 Gallons Unknown Qty Spilled: No

Quantity Recovered: Unknown Qty Recovered: False

TC01341121.1r Page 41

1000193267

Not reported

Not reported

Spiller Phone:

57 WHITNEY AVE.

BINGHAMTON, NY 13901

Willing Responsible Party. Corrective action taken.

PBS Number:

MAP FINDINGS

Database(s)

Other Commercial/Industrial

Not reported

Ω3

EDR ID Number EPA ID Number

1000193267

ROADWAY EXPRESS INC (Continued)

Material: Class Type: DIESEL Petroleum

Chem Abstract Service Number:

Last Date:

DIESEL 07/28/1994

Num Times Material Entry In File:

10625

DEC Remarks:

10/22/91: SPOKE WITH REP. FROM ROADWAY EXPRESS. MONITORING WELLS TO BE I

NSTALLED.

Spill Cause:

ID:

2 - 4K GALLON DIESEL FUEL TANKS REMOVED. CONTAMINATED SOIL NOTICED TO GR

Region of Spill:

Spit Source:

Facility Tele:

Caller Agency: Caller Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Notifier Extension:

SWIS:

Reported to Dept: 10/22/91 16:00

Date Call Received:Not reported

Amount Spilled 1: Not reported

OUNDWATER DEPTH. SOIL STOCKPILED FOR DISPOSAL.

Spill Number: Spill Date:

9107856

10/22/1991 16:00

Not reported

Material Spilled 1 Not reported

Region Close Dt : Not reported

Resource Affectd: Groundwater

Spill Cause:

Tank Overfill

Water Affected: Not reported Facility Contact:

Not reported

Investigator: Caller Name:

CWA Not reported

Not reported

Caller Phone: Not reported Notifier Name: Not reported

Notifier Phone: PBS:

Not reported Not reported

Spiller Contact: Spiller:

ROADWAY EXPRESS INC. 57 WHITNEY AVE. Spiller Address:

BINGHAMTON, NY 13901

Spill Class:

Known release that creates potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Penalty Not Recommended

11

Spill Closed Dt:

Spill Notifier:

DEC Cleanup Ceased: / /

Last Inspection: 10/23/91

Cleanup Meets Standard:

Recommended Penalty:

Spiller Cleanup Date:

Enforcement Date: Investigation Complete:

UST Involvement:

Spill Record Last Update:

Is Updated:

Corrective Action Plan Submitted:

True Date Not reported

Date Spill Entered In Computer Data File:

10/25/91 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Tank Number: Not reported Not reported

False

11

11

False

False

05/29/92

Test Method:

Not reported Not reported

Capacity of Failed Tank:

Not reported

Leak Rate Failed Tank: Gross Leak Rate:

Material:

Not reported

Material Class Type: Quantity Spilled:

0

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000193267

ROADWAY EXPRESS (NC (Continued)

Units:

Gallons

Unknown Qty Spilled:

No

Quantity Recovered: Unknown Qty Recovered: False

WASTE OIL

Material: Class Type:

Petroleum

Chem Abstract Service Number:

WASTE OIL 09/27/1994

Last Date: Num Times Material Entry In File:

9509

Material Class Type: Quantity Spilled:

n

Units:

Gallons

Unknown Qty Spilled: Quantity Recovered:

No O

Unknown Qty Recovered: False Material:

WASTE OIL

Class Type:

Petroleum

Chem Abstract Service Number:

WASTE OIL

Last Date:

09/27/1994

Num Times Material Entry In File:

DEC Remarks:

9509 10/23/91: MONITORING WELL INSTALLED IN EXCAVTION, SOIL REMOVED AND STOCK

PILED. SAMPLES TO BE TAKEN TO ID PRODUCT, RECOVERY SYSTEM TO BE SET UP. FUEL OIL TANK BEING REMOVED, TANK ALSO CONTAINED WASTE OIL. TANK FULL OF

HOLES. FREE PRODUCT ON WATER IN EXCAVATION.

PBS UST:

PBS Number:

7-033677

CBS Number:

Not reported

SPDES Number:

Spill Cause:

Not reported

SWIS ID:

0302

Operator:

P N HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

Emergency Contact:

P N HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

Total Tanks:

Owner:

ROADWAY EXPRESS INC

1077 GORGE BLVD **AKRON, OH 44309** (216) 384-1717

Owner Type: Owner Mark: Corporate/Commercial First Owner

Owner Subtype:

Not reported

Mailing Address:

ROADWAY EXPRESS INC ATTN: REGINA GODWIN

1077 GORGE BLVD P.O. BOX 471 **AKRON, OH 44309** (216) 384-1717

Tank Status:

Closed - Removed

Capacity (gals):

2000

Tank Location:

UNDERGROUND

Tank ld:

008

Install Date: Product Stored:

05/01/1967 OTHER

Tank Type: Tank Internal: Steel/carbon steel

Not reported

Pipe Internal: Pipe Type:

Not reported STEEL/IRON

Pipe Location: Tank External:

Not reported

Missing Data for Tank: Pipe External:

Minor Data Missing Not reported

Second Containment: Leak Detection:

NONE/NONE NONE/NONE

MAP FINDINGS

Database(s)

Not reported Not reported

Not reported

Not reported

0302

Minor data missing

Federal ID:

inspector:

CBS Number:

SWIS ID:

Facility Screen:

Certification Date: 06/20/1991

Expiration Date: 10/17/1991

EDR ID Number **EPA ID Number**

ROADWAY EXPRESS INC (Continued)

Suction Overfill Prot: Dispenser. Product Level Gauge Date Tested: Not reported Next Test Date: Not reported 10/01/1991 Not reported Date Closed: Test Method: Deleted: False Updated: True No data missing Dead Letter: False Owner Screen:

FAMT: Fiscal amount for registration fee is correct

Total Capacity: 0 Renewal Date:

Tank Screen: 0 Renew Flag: Renwal has not been printed

Certification Flag: False Old PBS Number: Not reported Inspected Date: Not reported

Inspection Result: Not reported Lat/long: Not reported

Facility Type: Not reported BINGHAMTON (C) Town or City:

Town or City Code: 02 County Code: 03 Region: 7

PBS Number: 7-033677 SPDES Number: Not reported

P N HUBBLE JR/TERMINAL MANAGER Operator:

(607) 723-7326

Emergency Contact: PIN HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

Total Tanks:

ROADWAY EXPRESS INC Owner: 1077 GORGE BLVD

AKRON, OH 44309 (216) 384-1717 Corporate/Commercial

Owner Type: Owner Mark: First Owner

Owner Subtype: Not reported **ROADWAY EXPRESS INC** Mailing Address:

ATTN: REGINA GODWIN 1077 GORGE BLVD

P.O. BOX 471 **AKRON, OH 44309** (216) 384-1717 Closed - Removed

Capacity (gals): 4000

Tank Status:

Tank Location:

UNDERGROUND Tank Id: 001

Tank Type: Steel/carbon steel Tank Internal: Not reported Pipe Location:

Tank External: Not reported Minor Data Missing Missing Data for Tank:

Pipe External: Not reported Second Containment: NONE

Leak Detection: NONE Overfill Prot: Product Level Gauge

04/01/1987 Date Tested: 10/01/1991 Date Closed: Deleted: False Dead Letter:

Faise

Dispenser: Next Test Date: Test Method: Updated:

Install Date:

Pipe Internal:

Pipe Type:

Product Stored:

Suction Not reported UNKNOWN True

05/01/1967

Not reported

STEEL/IRON

DIESEL

Owner Screen:

No data missing

1000193267

MAP FINDINGS

Database(s)

Not reported

Not reported Minor data missing

Not reported

Not reported

05/01/1967

Not reported

STEEL/IRON

DIESEL

Suction Not reported

True

UNKNOWN

0302

Federal ID:

inspector:

CBS Number:

SWIS ID:

Facility Screen:

Certification Date: 06/20/1991

Expiration Date: 10/17/1991

EDR ID Number EPA ID Number

1000193267

ROADWAY EXPRESS INC (Continued)

Total Capacity:

Tank Screen:

Renew Flag:

FAMT:

Certification Flag: Old PBS Number:

Inspected Date: Inspection Result:

Lat/long: Facility Type: Town or City:

Town or City Code:

County Code: Region:

PBS Number:

SPDES Number:

Operator: (607) 723-7326

Emergency Contact:

Total Tanks:

Owner:

1077 GORGE BLVD **AKRON, OH 44309** (216) 384-1717 Corporate/Commercial

Owner Type: Owner Mark:

Owner Subtype: Not reported

Mailing Address: ATTN: REGINA GODWIN

> P.O. BOX 471 **AKRON, OH 44309** (216) 384-1717

Tank Status: Capacity (gals):

Tank Location:

Tank id:

Tank Type: Tank Internal:

Pipe Location:

Tank External:

Missing Data for Tank: Pipe External:

Second Containment: Leak Detection:

Overfill Prot: Date Tested:

Date Closed: Deleted:

Dead Letter: FAMT: Total Capacity: Tank Screen:

Renew Flag:

Certification Flag:

Renwal has not been printed False

Fiscal amount for registration fee is correct Renewal Date:

Renwal has not been printed False

Not reported Not reported

Not reported Not reported Not reported BINGHAMTON (C)

02 03

7-033677 Not reported

P N HUBBLE JR/TERMINAL MANAGER

P N HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

ROADWAY EXPRESS INC

First Owner

ROADWAY EXPRESS INC

1077 GORGE BLVD

Closed - Removed 4000

UNDERGROUND 002 Steel/carbon steel

Not reported

Not reported Minor Data Missing Not reported

NONE NONE

Product Level Gauge 04/01/1987 10/01/1991 False

False

Owner Screen: Fiscal amount for registration fee is correct

Renewal Date: Federal ID:

Install Date:

Product Stored:

Pipe Internal:

Pipe Type:

Dispenser:

Next Test Date:

Test Method:

Updated:

Not reported Not reported Minor data missing Facility Screen: Certification Date: 06/20/1991

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000193267

ROADWAY EXPRESS INC (Continued)

Old PBS Number:

Inspected Date: Inspection Result:

Lat/long: Facility Type: Town or City:

Town or City Code: County Code: Region:

PBS Number:

Operator:

SPDES Number:

Not reported BINGHAMTON (C) 02

03

7-033677

(607) 723-7326

Emergency Contact:

Total Tanks:

Owner:

Owner Type: Owner Mark:

Owner Subtype:

Mailing Address:

Tank Status: Capacity (gals):

Tank Location:

Tank ld:

Tank Type: Tank Internal: Pipe Location:

Tank External: Missing Data for Tank:

Pipe External: Second Containment:

Leak Detection:

Overfill Prot: Date Tested: Date Closed:

Deleted: Dead Letter:

FAMT: Total Capacity:

Tank Screen: Renew Flag: Certification Flag: Old PBS Number:

Inspected Date: Inspection Result: Lat/long:

Facility Type:

Not reported

Not reported Not reported Not reported

Not reported

P N HUBBLE JR/TERMINAL MANAGER

PIN HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

ROADWAY EXPRESS INC

1077 GORGE BLVD **AKRON, OH 44309** (216) 384-1717 Corporate/Commercial

First Owner Not reported

ROADWAY EXPRESS INC ATTN: REGINA GODWIN

1077 GORGE BLVD P.O. BOX 471 **AKRON, OH 44309**

(216) 384-1717 Closed - Removed 1000

UNDERGROUND

003 Steel/carbon steel

Not reported

Not reported Minor Data Missing Not reported

NONE NONE Product Level Gauge

Not reported 10/01/1991 False

Fiscal amount for registration fee is correct

Renwal has not been printed

False Not reported Not reported Not reported Not reported

Not reported

Inspector:

Expiration Date: 10/17/1991 Not reported

Not reported CBS Number:

0302

SWIS ID:

05/01/1967 OTHER

Product Stored: Not reported Pipe Internal: STEEL/IRON Pipe Type:

Suction Dispenser: Next Test Date: Test Method:

Install Date:

Updated:

Federal ID:

Owner Screen:

Not reported Not reported True

No data missing

Renewal Date: Not reported Not reported Minor data missing Facility Screen:

Certification Date: 06/20/1991 Expiration Date: 10/17/1991 Not reported Inspector:

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000193267

ROADWAY EXPRESS INC (Continued)

Town or City:

BINGHAMTON (C)

Town or City Code:

02 03 7

County Code: Region:

7-033677

CBS Number: SWIS ID:

Not reported

0302

PBS Number: SPDES Number: Operator:

Not reported

P N HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

Emergency Contact:

P N HUBBLE JR/TERMINAL MANAGER

(607) 723-7326

Total Tanks:

Owner:

ROADWAY EXPRESS INC

1077 GORGE BLVD **AKRON, OH 44309** (216) 384-1717

Owner Type: Owner Mark:

Corporate/Commercial First Owner

Owner Subtype:

Not reported

ROADWAY EXPRESS INC. Mailing Address:

ATTN: REGINA GODWIN 1077 GORGE BLVD P.O. BOX 471 **AKRON, OH 44309** (216) 384-1717

Tank Status:

Closed Prior to 04/91 (Either Closed In-Place or Removed)

Capacity (gals):

3000

Tank Location:

UNDERGROUND 004

Tank ld: Tank Type:

Steel/carbon steel Not reported

Install Date: Product Stored: 05/01/1967 DIESEL

Tank internal: Pipe Location:

Pipe Internal: Pipe Type:

Not reported STEEL/IRON

Tank External: Missing Data for Tank: Pipe External:

Not reported Minor Data Missing Not reported

Second Containment: Leak Detection:

NONE NONE

Overfill Prot: Date Tested: Date Closed:

Deleted:

Product Level Gauge Not reported Not reported False

Dispenser: Next Test Date: Test Method: Updated: Owner Screen: No data missing

Suction Not reported Not reported Faise

Dead Letter: False FAMT: Fiscal amount for registration fee is correct

Total Capacity: Tank Screen:

Renewal Date: Federal ID:

Not reported Not reported Minor data missing

Renew Flag: Certification Flag: Renwal has not been printed False

Facility Screen: Certification Date: 06/20/1991 Expiration Date: 10/17/1991 Not reported Inspector:

Old PBS Number: Inspected Date: Inspection Result:

Not reported Not reported Not reported Not reported

Lat/long: Facility Type: Town or City:

Not reported BINGHAMTON (C)

Town or City Code: County Code: Region:

02

03 7

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

ROADWAY EXPRESS INC (Continued)

1000193267

This is the most recent NY PBS data for this site.

Click this hyperlink while viewing on your computer to access 3 additional NY PBS record(s) in the EDR Site Report.

F28 ESE U.S NAVAL RESERVE CENTER

LTANKS S101341584

Other Non Commercial/Industrial

Not reported

Not reported Not reported

Not reported Not reported

Not reported

Not reported

N/A

1/4-1/2 2310 ft. 51 WHITNEY AVE.

BINGHAMTON, NY

Relative

Site 2 of 2 in cluster F

Spill Date:

Caller Name:

Lower Actual: 850 ft.

LTANKS:

Spill Number:

ID:

9411825 Not reported

10/25/1994 09:15

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

Notifier Extension:

SWIS:

Region of Spill:

Reported to Dept: 10/25/94 09:15 Date Call Received:Not reported Amount Spilled 1: Not reported

Material Spilled 1 :Not reported Region Close Dt : Not reported

Resource Affectd: Groundwater Spill Cause: Tank Failure

Water Affected: Not reported Facility Contact: Not reported Investigator:

JOA

Not reported Not reported

Caller Phone: Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported U.S. NAVY Spiller:

Spiller Address: Not reported Spill Class:

Known release that creates potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken. 12/11/00

Penalty Not Recommended

11

Spill Closed Dt: Spill Notifier: Other

Cleanup Ceased: / /

Last Inspection: 08/18/99 False

Cleanup Meets Standard:

Recommended Penalty:

Spiller Cleanup Date: 11 Enforcement Date: 11 Investigation Complete: 11

UST Involvement: Spill Record Last Update:

12/18/00 is Updated: False Corrective Action Plan Submitted:

True Date: Not reported

12/07/94 Date Spill Entered In Computer Data File: Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Tank Number: Test Method:

Not reported Not reported Not reported

False

Capacity of Failed Tank: Leak Rate Failed Tank: Gross Leak Rate:

Not reported Not reported Not reported

Material:

Units:

Material Class Type: Quantity Spilled:

٥ Gallons

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S101341584

U.S NAVAL RESERVE CENTER (Continued)

Unknown Qty Spilled: No Quantity Recovered:

Unknown Qty Recovered: False

Material:

UNKNOWN PETROLEUM

Petroleum Class Type:

Chem Abstract Service Number:

UNKNOWN PETROLEUM

Last Date:

09/29/1994 16414

Num Times Material Entry In File: Material Class Type:

Quantity Spilled:

0 Gallons

Units: Unknown Qtv Spilled:

No

Quantity Recovered:

Unknown Qty Recovered: False

Material: Class Type:

UNKNOWN PETROLEUM Petroleum

Chem Abstract Service Number:

UNKNOWN PETROLEUM

Last Date:

09/29/1994

Num Times Material Entry In File:

16414

DEC Remarks:

12/95- CITY OF BINGHAMTON TO PERFROM G.W. INVESTIGATION. 12/11/00 - U.S. NAVY DEWATERED SITE AND EXCAVATED CONTAMINATED SOIL. CONTAMINATED SOIL A ND WATER AT PROPERTY LINE. UNABLE TO CONTINUE DUE TO STRUCTURES. SPILL I

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Notifier Agency:

Spiller Phone:

PBS Number:

SWIS:

Reported to Dept: 05/23/94 10:00

Date Call Received:Not reported

Amount Spilled 1: Not reported

NACTIVE. JEO.

Spill Cause:

1-8K AND 2-5K TANKS BEING REMOVED. SKIM OF PRODUCT FOUND ON IN EXCAVATIO

29 East **AGWAY FEED STORE** 44-55 MONTGOMERY ST. **BINGHAMTON, NY**

1/4-1/2 2415 ft.

Relative: Lower

Actual:

850 ft.

LTANKS:

ID:

Spill Number: Spill Date:

9402592

05/23/1994 09:50

Not reported

Material Spilled 1 :Not reported Region Close Dt : Not reported

Resource Affectd: Groundwater

Spill Cause: Water Affected:

Tank Test Failure Not reported

Not reported Facility Contact:

Investigator: **GPA**

Caller Name:

Not reported Caller Phone: Not reported Not reported Notifier Name: Notifier Phone: Not reported Not reported PBS:

Spiller Contact: Spiller:

Spiller Address:

Spill Class:

AGWAY FEED INC. SYRACUSE, NY

Not reported

Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 06/06/94

Last inspection: 06/03/94

Spill Notifier: Cleanup Ceased: 06/06/94

Responsible Party

Recommended Penalty:

Cleanup Meets Standard: True

Spiller Cleanup Date:

Penalty Not Recommended

LTANKS \$104276512 N/A

Other Commercial/Industrial Not reported

03

Not reported

Not reported Caller Extension: Not reported Notifier Extension: Not reported

Not reported

Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

\$104276512

AGWAY FEED STORE (Continued)

Enforcement Date: Investigation Complete: 11 UST involvement: True Spill Record Last Update: 11/07/94 Is Updated: False

Corrective Action Plan Submitted: 11

True Date: Not reported

Date Spill Entered In Computer Data File: 06/06/94

Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Not reported Tank Number: Not reported Test Method: Capacity of Failed Tank:

0.00 Leak Rate Failed Tank: Gross Leak Rate: Not reported PBS Number: Not reported Not reported Tank Number: Test Method: Not reported

Capacity of Failed Tank: 0 Leak Rate Failed Tank: 0.00

Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: No Quantity Recovered: n Unknown Qty Recovered: False DIESEL Material: Petroleum

Class Type: Chem Abstract Service Number:

DIESEL 07/28/1994 Last Date: Num Times Material Entry In File: 10625

Material Class Type: Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: Nσ Quantity Recovered: Unknown Qty Recovered: False DIESEL Material:

Class Type: Petroleum DIESEL Chem Abstract Service Number: 07/28/1994 Last Date:

Num Times Material Entry In File: 10625 1.1 : TANK HAD PROBLEM WITH RETURN LINE. REPAIRED AND PLACED BACK IN S DEC Remarks:

ERVICE.

10K FAILED TANK TEST. LINE IS SUSPECT. TO EXCAVATE, ISOLATE AND RETEST. Spill Cause:

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

Other Commercial/Industrial

(607) 772-0600

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

03

FDR ID Number EPA ID Number

G30 SW

PARLOR CITY PAPER BOX CO., INC.

2 FLDREDGE ST.

1/4-1/2 BINGHAMTON, NY 13902 2474 ft.

UST LTANKS

U003313613 N/A

Relative:

Site 1 of 2 in cluster G

Lower Actual:

839 ft.

LTANKS:

Spill Number:

9208903

Region of Spill: Reported to Dept: 10/30/92 10:30

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Extension:

Notifier Agency:

Spiller Phone:

PBS Number:

SWIS:

Date Call Received:Not reported

Amount Spilled 1: Not reported

10/30/1992 10:30 Spill Date: ID. Not reported Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd; On Land Spill Cause: Tank Failure Water Affected:

Not reported Facility Contact: Not reported

Investigator: **CWA** Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported

Spiller: PARLOR CITY PAPER BOX 2 ELDREDGE ST. Spiller Address:

BINGHAMTON, NY 13902

Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

11

Spill Closed Dt: 12/05/96

Spill Class:

Spill Notifier: DEC Cleanup Ceased: 12/05/96

Last Inspection: // False

Cleanup Meets Standard: Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: II**Enforcement Date:** 11 Investigation Complete: 11 UST involvement: False Spill Record Last Update: 12/05/96 Is Updated: False Corrective Action Plan Submitted:

True Date: Not reported

Date Spill Entered In Computer Data File: 11/03/92 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: 1 Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: Nο Quantity Recovered: Unknown Qty Recovered: False #2 FUEL OIL Material:

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

PARLOR CITY PAPER BOX CO., INC. (Continued)

U003313613

Class Type:

Petroleum

Chem Abstract Service Number: Last Date:

#2 FUEL OIL 12/07/1994 24464

Num Times Material Entry In File:

Material Class Type: Quantity Spilled:

0 Gallons

Units: Unknown Qty Spilled: Quantity Recovered:

No

Unknown Qty Recovered: False Material:

#2 FUEL OIL Petroleum

Class Type: Chem Abstract Service Number:

#2 FUEL OIL 12/07/1994

Last Date:

Num Times Material Entry In File:

24464

DEC Remarks:

/ / : COULD NOT REMOVED ANY SOIL DUE TO TANK LOCATION. SOIL SAMPLES TA

KEN FROM EXCAVATION, 8021 8270 TO BE RUN.

Spill Cause:

8K GALLON FUEL OIL TANK REMOVED. TANK LOCATED IN SIDEWALK ALONG ELDREDGE ST. GAS MAIN AND STREET ON ONE SIDE AND BUILDING FOUNDATION ON OTHER SID

E. TANK CONTAINED HOLES.

PBS UST:

PBS Number:

7-428256

CBS Number:

Not reported

SPDES Number:

Not reported

SWIS ID:

0302

Operator:

Owner:

PARLOR CITY PAPER BOX CO. INC.

(607) 772-0600

Emergency Contact:

DAVID L. CULVER (607) 693-2823

Total Tanks:

PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756

BINGHAMTON, NY 13902

(607) 772-0600

Owner Type:

Corporate/Commercial

Owner Mark:

First Owner

Owner Subtype:

Not reported

Mailing Address:

PARLOR CITY PAPER BOX CO., INC.

2 ELDREDGE ST., P.O. BOX 756

BINGHAMTON, NY 13902

(607) 772-0600

Tank Status: Capacity (gals): Closed - Removed

1000

Tank Location: Tank Id:

UNDERGROUND 002

install Date:

Not reported

Tank Type:

Steel/carbon steel

Product Stored:

LEADED GASOLINE NONE

Tank internal:

NONE

Pipe Internal: Pipe Type:

NONE

Suction

Pipe Location:

None

Tank External: Missing Data for Tank: NONE/NONE No Missing Data

Pipe External: Second Containment: NONE/NONE NONE/NONE

Leak Detection: Overfill Prot:

NONE/NONE

Date Tested: Date Closed: None Not reported 10/01/1992

Next Test Date: Test Method:

Dispenser:

Not reported Not reported

Deleted:

False

Updated:

True

Dead Letter:

False

Owner Screen: No data missing

FAMT:

Fiscal amount for registration fee is correct

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

U003313613

PARLOR CITY PAPER BOX CO., INC. (Continued)

a

False

02

03

7

Not reported

Not reported

Not reported

Not reported

7-428256

Not reported

(607) 772-0600 DAVID L. CULVER

(607) 693-2823

(607) 772-0600

MANUFACTURING BINGHAMTON (C)

Renwal has not been printed

Total Capacity:

Tank Screen:

Renew Flag:

Certification Flag: Old PBS Number: Inspected Date:

Inspection Result: Lat/long:

Facility Type: Town or City:

Town or City Code:

County Code: Region:

PBS Number:

SPDES Number:

Operator:

Emergency Contact:

Total Tanks:

Owner:

Owner Type: Owner Mark: Owner Subtype:

Mailing Address:

Tank Status: Capacity (gals):

Tank Location:

Tank id:

Tank Type: Tank internal:

Pipe Location: Tank External:

Missing Data for Tank; Pipe External:

Second Containment:

Leak Detection:

Overfill Prot: Date Tested:

Date Closed: Deleted:

Dead Letter: FAMT:

Total Capacity: Tank Screen;

Renew Flag: Certification Flag: Old PBS Number:

Inspected Date: Inspection Result: Not reported

False

Renewal Date:

Not reported Not reported Federal ID: No data missing Facility Screen: Certification Date: 12/14/1987

Expiration Date: 12/14/1992 Not reported inspector:

Not reported CBS Number: 0302

SWIS ID:

Corporate/Commercial First Owner

PARLOR CITY PAPER BOX CO. INC.

PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902

Not reported

PARLOR CITY PAPER BOX CO., INC.

2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902

(607) 772-0600 Closed - Removed 8000

UNDERGROUND 001

Steel/carbon steel Not reported

Not reported Not reported Minor Data Missing

Not reported NONE NONE

12/01/1987 10/01/1992 False

Renwal has not been printed

Fiscal amount for registration fee is correct

Not reported Not reported

12/01/1954 Install Date:

NOS 1.2. OR 4 FUEL OIL Product Stored: Pipe Internal: Not reported

Pipe Type:

Dispenser:

Undated:

Federal ID:

Next Test Date:

Test Method:

Not reported

Suction Not reported AINLAY

True

No data missing Owner Screen:

Renewal Date: Not reported Not reported No data missing Facility Screen:

Certification Date: 12/14/1987 Expiration Date: 12/14/1992 Inspector:

Not reported

MAP FINDINGS

Database(s)

Other Non Commercial/Industrial

(607) 773-4597

Not reported

Not reported

Not reported

(607) 773-4597

03

EDR ID Number EPA ID Number

U003313613

PARLOR CITY PAPER BOX CO., INC. (Continued)

Lat/long:

Not reported

Facility Type: Town or City: MANUFACTURING BINGHAMTON (C)

Town or City Code:

02

County Code: Region:

03 7

H31 ESE 1/4-1/2 2477 ft. **HEATING PLANT** 425 ROBINSON ST BINGHAMTON, NY

LTANKS S104787200 NY Spills N/A

Site 1 of 3 in cluster H

Relative: Lower

Actual:

850 ft.

SPILLS

Spill Number: Spill Date:

0004462

07/13/2000 16:56

IĎ:

Not reported

Dt Call Received: Not reported Material Spilled 1 :Not reported Unknown

Spill Cause: Water Affected: Facility Contact:

Not reported DAVE ASWAD

Investigator:

JOS

Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact:

DAVE ASWAD

Spiller: Spiller Address: **BIGHAMTON PSYCH CENTER**

425 ROBINSON ST

BINGHAMTON, NY 13901 DEC Remarks:

7/13/2000 - SPILL WENT INTO SANITARY DRAIN, ABSORBENTS PLACED IN MANWAY TO PICK UP PRODUCT. SPILL AREA IN HEATING PLANT CONTAINED AND CLEANED UP, CITY OF BING, NOTIFIED OF RELEASE, 7/14/2000 - VISITED SITE, SMALL

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

SWIS:

Reported to Dept: 07/13/00 17:56

Region Close Date Not reported Amount Spilled 1: Not reported

Notifier Extension: Not reported

Resource Affected: In Sewer

AMOUNT REMAINS IN MANWAY, CLEANUP CO

. TO BE HIRED TO COMPLETE CLEANUP, AMOUNT SPILLED BELIEVED TO BE ABOUT

10 GALLONS, NFA, JEO.

Remark:

cleanup in progress prduct is a fuel additive of some type.

Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Tank Test:

PBS Number: Tank Number: Test Method:

Not reported Not reported Not reported Capacity of Failed Tank: Not reported Not reported

Gross Leak Rate:

Leak Rate Failed Tank: Not reported

Material:

Units:

Material Class Type: Quantity Spilled:

10 Gallons

Unknown Qty Spilled: Quantity Recovered:

10 0

Unknown Qty Recovered: False

Material:

FUEL ADDITIVE

Class Type:

Petroleum

Chem Abstract Service Number:

FUEL ADDITIVE

Last Date:

Not reported

MAP FINDINGS

8

Database(s)

EDR ID Number EPA ID Number

S104787200

HEATING PLANT (Continued)

Num Times Material Entry In File:

Material Class Type: Quantity Spilled:

10

Units:

Gallons

Unknown Qty Spilled:

10 0

Quantity Recovered: Unknown Qty Recovered: False

Material: **FUEL ADDITIVE**

Class Type:

Petroleum

Chem Abstract Service Number:

FUEL ADDITIVE

Last Date:

Not reported

Num Times Material Entry In File:

Spill Closed Dt: 07/14/00 Spill Notifier:

Responsible Party

PBS Number:

Not reported

Cleanup Ceased: / /

Last Inspection: 07/14/00

Cleanup Meets Std:True

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Dt/ /

В

Enforcement Date: / / UST Involvement: False

Invstgn Complete:/ /

Spill Record Last Update: 07/14/00

Is Updated: False Corrective Action Plan Submitted:

07/13/00

Date Spill Entered in Computer Data File: Date Region Sent Summary to Central Office: / /

True Date:

Tank Number:

Test Method:

Not reported

LTANKS:

Spill Number:

0208285

Not reported

Not reported

Region of Spill: Tank Size : Leak Rate:

Not reported Not reported

11/11/02 Spill Date: 14863 ID: Material Spilled 1 #2 FUEL OIL Reported to Dept: // Date Call Received:11/11/02

Amount Spilled 1: Unknown Gal.

Region Close Dt: 10/02/03 Resource Affectd: GROUNDWATER

Spill Cause:

TANK FAILURE

Water Affected:

Not reported

Spill Source:

OTHER NON COMM/INSTITUTIONAL

H32 EŞE 1/4-1/2 2477 ft. BINGHAMTON PHYCH, CENTER

425 ROBINSON STREET BINGHAMTON, NY

SWF/LF NY Spills

S102166296 N/A

Relative: Lower

Site 2 of 3 in cluster H

LF:

Secondary Addr: Not reported

Region Code:

Actual: 850 ft.

Phone Number: Not reported

Owner Name:

Not reported

Owner Type: Not reported Owner Address: Not reported

Not reported

Not reported

Not reported

Owner Phone:

Not reported

Owner Email: Contact Name : Not reported

Contact Address : Not reported

Not reported

Contact Phone:

Not reported Contact Email:

Not reported

Not reported

Activity Desc :

Landfill - construction and demolition debris

Activity Number: Not reported

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

BINGHAMTON PHYCH. CENTER (Continued)

S102166296

Active :

Nο

North Coordinate :Not reported

Regulatory Status Not reported Waste Type:

Not reported

Authorization #: None

Expiration Date: Not reported

Authorization Date :Not reported

SPILLS:

ID:

Spill Number: Spill Date:

8808913

02/15/1989 09:30

Not reported

Dt Call Received: Not reported

Material Spilled 1 :Not reported Human Error Spill Cause: Water Affected: Not reported Facility Contact: Not reported

Investigator:

BS

Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported Not reported

Spiller Contact: Spiller:

BINGHAMTON PSYCH CENTER 425 ROBINSON ST.

Spiller Address: BINGHAMTON, NY 13901

DEC Remarks: 02/15/89; CLEANED UP WITH SAW DUST AND SAND. APPROX. 1 GAL. LEAKED FROM HOSE. CLEANED UP WITH SAW DUST AND SAND. Remark:

Spill Class:

Not reported

Tank Test:

PBS Number: Tank Number:

Test Method: Not reported Capacity of Failed Tank: Leak Rate Failed Tank: Gross Leak Rate:

Material:

Material Class Type:

Quantity Spilled: Units:

Unknown Qty Spilled: Quantity Recovered:

Unknown Qty Recovered: False Material: Class Type:

Chem Abstract Service Number: Last Date:

Num Times Material Entry In File: Material Class Type:

Quantity Spilled: Units:

Gallons Unknown Qty Spilled: Yes Quantity Recovered: Unknown Qty Recovered: False

Material: Class Type: #2 FUEL OIL Petroleum

Chem Abstract Service Number:

Last Date:

#2 FUEL OIL 12/07/1994

TC01341121.1r Page 56

Not reported Accuracy Code:

East Coordinate: Not reported

Region of Spill:

Reported to Dept: 02/15/89 09:50

Region Close Date Not reported Amount Spilled 1 Not reported Resource Affected: On Land

Spill Source:

Tank Truck (607) 773-4565 Facility Tele: 03 SWIS:

Not reported Caller Agency: Not reported Caller Extension: Not reported Notifier Agency: Notifier Extension: Not reported

Spiller Phone:

Not reported

Not reported Not reported

Not reported Not reported Not reported

Gallons

Yes

#2 FUEL OIL Petroleum

> #2 FUEL OIL 12/07/1994

24464

MAP FINDINGS

Database(s)

FDR ID Number EPA ID Number

S102166296

BINGHAMTON PHYCH. CENTER (Continued)

Num Times Material Entry In File:

24464

Spill Closed Dt: 02/15/89

Spill Notifier:

Responsible Party

PBS Number:

Not reported

Cleanup Ceased: 02/15/89 Last Inspection: 02/15/89

Recommended Penalty:

Penalty Not Recommended

Cleanup Meets Std:True Enforcement Date: / /

UST Involvement: False

Spiller Cleanup Dt/ / Invstgn Complete:/ /

Spill Record Last Update:

11

is Updated: False Corrective Action Plan Submitted:

03/09/89

Date Spill Entered in Computer Data File: Date Region Sent Summary to Central Office: / /

True Date :

Not reported

H33 **ESF** 1/4-1/2 2477 ft. **BINGHAMTON PSYCHIATRIC CENTER**

425 ROBINSON ST

BINGHAMTON, NY 13901

RCRA-SQG 1000234702 NYD010781854 FINDS LTANKS

alliq2 YM

Relative: Lower

Site 3 of 3 in cluster H RCRAInfo:

Owner:

EPA ID:

Not reported NYD010781854

Actual: 850 ft.

Not reported

Contact: Classification:

Small Quantity Generator

TSDF Activities: Not reported

Violation Status: No violations found

NY MANIFEST

Click this hyperlink while viewing on your computer to access additional NY MANIFEST detail in the EDR Site Report.

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Aerometric Information Retrieval System/AIRS Facility Subsystem

National Emissions Inventory

Resource Conservation and Recovery Act Information system

SPILLS:

Spill Number: Tank Number: 0365032

Not reported Not reported Region of Spill: Tank Size:

Leak Rate:

Not reported Not reported

Test Method: Spill Date:

07/11/03

Reported to Dept:

ID:

26214 07/11/03

Date Call Received: Region Close Date:

07/11/03

Material Spilled 1 DIESEL

Water Affected:

ON LAND Spill Cause:

Amount Spilled 1: 5 Gal. Resource Affected: ON LAND

Spill Source:

COMMERCIAL VEHICLE

LTANKS:

Spill Number: Tank Number: 0265056 Not reported

Not reported

Region of Spill: Tank Size: Leak Rate:

Not reported Not reported

Test Method: Spill Date: ID:

10/21/02 13861

Not reported

Reported to Dept: 1/ Date Call Received:10/21/02

Material Spilled 1 #2 FUEL OIL

Amount Spilled 1: Unknown Gal.

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000234702

BINGHAMTON PSYCHIATRIC CENTER (Continued)

Region Close Dt: 11/01/02

Resource Affectd: GROUNDWATER Spill Cause:

TANK FAILURE

Water Affected:

Not reported

Spill Source:

Region of Spill:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

PB\$ Number:

Notifier Extension:

SWIS:

Reported to Dept: 04/16/98 07:50

Date Call Received:Not reported Amount Spilled 1: Not reported

OTHER NON COMM/INSTITUTIONAL

Other Non Commercial/Industrial

Not reported

Spill Number:

Spill Date: IĎ:

9800677

04/16/1998 07:45

Not reported

Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd: On Land Tank Failure

Spill Cause: Water Affected:

Not reported

Facility Contact: Not reported

Investigator:

GPS

Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported Spiller: Not reported

Spiller Address: Not reported Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 03/06/01

Spill Notifier: Responsible Party

Cleanup Ceased: / /

Last Inspection: 11

Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended Spiller Cleanup Date: 11

Enforcement Date: 11 Investigation Complete: 17 UST Involvement: True Spill Record Last Update: 03/06/01 False Is Updated:

Corrective Action Plan Submitted: 11

True Date Not reported

Date Spill Entered in Computer Data File: 04/16/98 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Not reported Test Method: Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: Nο Quantity Recovered: 0 Unknown Qty Recovered: False Material: GASOLINE Petroleum Class Type:

TC01341121.1r Page 58

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

BINGHAMTON PSYCHIATRIC CENTER (Continued)

1000234702

```
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
```

Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329

DEC Remarks: Not reported

Spill Cause: TANK 21D. TANK ABANDONED 30 YEAS AGO. CONTAMINATION FOUND. SOIL TO BE

REMOVED.

Spill Number:9800678Region of Spill:7Spill Date:04/15/1998 10:00Reported to Dept:04/15/98 10:15ID:Not reportedDate Call Received:Not reportedMaterial Spilled 1: Not reportedAmount Spilled 1: Not reported

Region Close Dt : Not reported Resource Affectd: On Land Spill Cause: Tank Failure

Water Affected: Not reported Spill Source: Other Non Commercial/Industrial Facility Contact: Not reported Facility Tele: Not reported

03 Investigator: **CWS** SWIS: Not reported Caller Name: Not reported Caller Agency: Caller Extension: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Agency: Not reported Not reported Notifier Extension: Notifier Phone: Not reported PBS: Not reported

Spiller Contact: Not reported Spiller Phone: Not reported Spiller: Not reported

Spiller Address: Not reported

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken.

Spill Closed Dt: 05/21/99
Spill Motifier: Responsible Party PRS Num

Faise

Spill Notifier: Responsible Party PBS Number: Not reported Cleanup Ceased: / /

Last Inspection: / /
Cleanup Meets Standard:

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: 11 **Enforcement Date:** 11 Investigation Complete: 11 UST Involvement: True Spill Record Last Update: 05/21/99 Is Updated: False Corrective Action Plan Submitted: 11 True Date : Not reported

Date Spill Entered In Computer Data File: 04/16/98

Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Map ID Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

BINGHAMTON PSYCHIATRIC CENTER (Continued)

1000234702

Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: Quantity Spilled: n Units: Gallons Unknown Qty Spilled: No Quantity Recovered: n Unknown Qty Recovered: False Material: GASOLINE Class Type: Petroleum

Chem Abstract Service Number:

GASOLINE Last Date: 09/29/1994 21329 Num Times Material Entry In File:

Material Class Type: Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False Material: GASOLINE Class Type: Petroleum

Chem Abstract Service Number:

GASOLINE Last Date: 09/29/1994 Num Times Material Entry In File: 21329

DEC Remarks: Not reported

TANK 54A B. REMOVING TANK. CONTAMINATION FOUND. SOIL DUG UP. SAMPLE Spill Cause:

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

PRS Number:

Notifier Extension:

SWIS:

TAKEN.

Spill Number: 8904361

Region of Spill: Reported to Dept: 08/02/89 08:48 Spill Date: 08/01/1989 16:35 Date Call Received:Not reported ID: Not reported Amount Spilled 1: Not reported Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd: Groundwater Spill Cause: Tank Test Failure

Water Affected: Not reported Facility Contact: Not reported

Investigator: JOA Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported Not reported PBS:

Spiller Contact: Not reported Spiller: BINGHAMTON PYSCH, CENTER

Spiller Address: 425 ROBINSON ST. BINGHAMTON, NY

Spill Class: Not reported Spill Closed Dt: 08/10/89 Tank Tester Spill Notifier:

Cleanup Ceased: 08/09/89 Last Inspection: 08/09/89 Cleanup Meets Standard: True

Recommended Penalty: Penalty Not Recommended Other Non Commercial/Industrial

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

7-041912

03

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000234702

BINGHAMTON PSYCHIATRIC CENTER (Continued)

Spill Cause:

AND RETEST,

```
Spiller Cleanup Date:
Enforcement Date:
                           11
Investigation Complete:
                           11
UST Involvement:
                           False
Spill Record Last Update:
                           08/10/89
Is Updated:
                           False
Corrective Action Plan Submitted:
                                           11
True Date :
                            Not reported
Date Spill Entered in Computer Data File:
                                           08/03/89
Date Region Sent Summary to Central Office: / /
Tank Test:
  PBS Number:
                            Not reported
  Tank Number:
                            Not reported
  Test Method:
                            Not reported
  Capacity of Failed Tank:
  Leak Rate Failed Tank:
                            0.00
  Gross Leak Rate:
                            Not reported
  PB$ Number:
                            Not reported
  Tank Number:
                            Not reported
  Test Method:
                            Not reported
  Capacity of Failed Tank:
  Leak Rate Failed Tank:
                            0.00
  Gross Leak Rate:
                            Not reported
Material:
   Material Class Type:
  Quantity Spilled:
                            0
                            Gallons
  Units:
  Unknown Qty Spilled:
                            Νo
   Quantity Recovered:
                            0
   Unknown Qty Recovered: False
                            #2 FUEL OIL
   Material:
   Class Type:
                            Petroleum
                                            #2 FUEL OIL
   Chem Abstract Service Number:
   Last Date:
                                            12/07/1994
                                            24464
   Num Times Material Entry In File:
   Material Class Type:
   Quantity Spilled:
                            0
                            Gallons
   Units:
   Unknown Qty Spilled:
                            No
   Quantity Recovered:
                            0
   Unknown Qty Recovered: False
   Material:
                            #2 FUEL OIL
   Class Type:
                            Petroleum
   Chem Abstract Service Number:
                                            #2 FUEL OIL
   Last Date:
                                            12/07/1994
                                            24464
   Num Times Material Entry In File:
                 08/09/89: SYSTEMS RETEST PASSED ON 8/4/89. TESTER WAS JOE MC DONALD CENT
 DEC Remarks:
                  RAL TESTING) RATE -.027 GPH.
```

2K SYSTEM FAILED PETRO-TITE TEST AT - 059 GPH. PLAN TO EXCAVATE ISOLATE

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

Other Commercial/Industrial

(607) 762-7498

Not reported

Not reported

Not reported

Not reported

Not reported

03

EDR ID Number EPA ID Number

G34 SW 1/4-1/2 NYSEG - NOYES ISLAND ELDREDGE / WATER STS. BINGHAMTON, NY

LTANKS

\$100781992 N/A

2514 ft. Relative:

Site 2 of 2 in cluster G

Spill Date:

Lower Actual:

851 ft.

LTANKS:

ID-

Spill Number:

9309092

04/20/1993 12:00

Spill Source:

Facility Tele:

Caller Agency:

Caller Extension:

Notifier Agency:

Spiller Phone:

Notifier Extension:

SWIS:

Region of Spill: Reported to Dept: 05/27/93 12:00 Date Call Received:Not reported

Amount Spilled 1: Not reported

Not reported Material Spilled 1 Not reported

Region Close Dt: Not reported Resource Affectd: Groundwater

Spill Cause: Tank Failure Water Affected: Not reported

Facility Contact: Not reported

Investigator: CWA Caller Name: Not reported Caller Phone: Not reported Notifier Name: Not reported Notifier Phone: Not reported PBS: Not reported

Not reported Spiller Contact: Spiller: NYSEG

PO BOX 5226 CORP. DR. Spiller Address: BINGHAMTON, NY 13902

Known release that creates potential for fire or hazard. DEC Response.

11

Willing Responsible Party. Corrective action taken.

Spill Closed Dt:

Spill Class:

Other Spill Notifier:

PBS Number:

Not reported

Cleanup Ceased: / / Last Inspection: //

Cleanup Meets Standard: False

Recommended Penalty: Penalty Not Recommended

Spiller Cleanup Date: 11 **Enforcement Date:** 11 Investigation Complete: II**UST Involvement:** True Spill Record Last Update: 01/11/95 Is Updated: False Corrective Action Plan Submitted:

True Date: Not reported

Date Spill Entered In Computer Data File:

10/28/93 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported

Material:

Material Class Type: 0 Quantity Spilled: Units: Gallons Unknown Qty Spilled: No Quantity Recovered: Unknown Qty Recovered: False GASOLINE Material:

Map ID Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

\$100781992

NYSEG - NOYES ISLAND (Continued)

Petroleum

Chem Abstract Service Number:

GASOLINE 09/29/1994

Last Date: Num Times Material Entry In File:

21329

Material Class Type: Quantity Spilled:

Class Type:

0 Gallons

Units: Unknown Qty Spilled:

No

Quantity Recovered:

Unknown Qty Recovered: False Material:

GASOLINE Petroleum

Class Type: Chem Abstract Service Number:

GASOLINE

Last Date:

09/29/1994

Num Times Material Entry In File:

21329

DEC Remarks:

10/27/93: NYSEG TO INVESTIGATE.

Spill Cause:

GROUNDWATER CONTAMINATION FOUND DURING SITE INVESTIGATION.

PIERSON OFFICE SUPPLY 35 SW 350 WATER ST 1/4-1/2 BINGHAMTON, NY

LTANKS S102399655

N/A

2620 ft.

LTANKS:

ID.

Relative: Lower Actual:

837 ft.

Spill Number: Spill Date:

9606758

Region of Spill:

08/19/1996 10:30 Not reported

Reported to Dept: 08/24/96 08:30 Date Call Received:Not reported Amount Spilled 1: Not reported

Material Spilled 1 Not reported Region Close Dt: Not reported

Resource Affectd: On Land

Spill Cause:

Tank Failure

Water Affected: Not reported Spill Source:

Other Commercial/Industrial

Facility Contact:

STAN GILINSKY

Facility Tele: SWIS:

(607) 722-2000 03

Investigator: Caller Name: Caller Phone:

Notifier Name:

JOA Not reported

Caller Agency: Caller Extension: Notifier Agency:

Spiller Phone:

Not reported Not reported Not reported

Notifier Phone: PBS:

Spiller:

Not reported Not reported Not reported

Not reported

Notifier Extension: Not reported

(607) 722-2000

Spiller Contact:

STAN GILINSKY PIERSON OFFICE SUPPLY

350 WATER ST

Spiller Address:

BINGHAMTON, NY

Spill Class:

Known release with minimal potential for fire or hazard. DEC Response.

Willing Responsible Party. Corrective action taken. 10/10/96

Spill Closed Dt:

Responsible Party

PBS Number:

Not reported

Spill Notifier: Cleanup Ceased: 10/10/96

Last Inspection: 09/19/96

Cleanup Meets Standard:

False

Recommended Penalty:

Penalty Not Recommended

Spiller Cleanup Date: Enforcement Date: Investigation Complete:

11 11

UST Involvement: Spill Record Last Update: Faise 10/16/96

Is Updated:

False

Corrective Action Plan Submitted: True Date :

Not reported

11

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Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S102399655

PIERSON OFFICE SUPPLY (Continued)

Date Spill Entered In Computer Data File: 08/27/96 Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:

Material Class Type:

Quantity Spilled:
Units:
Unknown Qty Spilled:
No
Quantity Recovered:
Unknown Qty Recovered:
False
Material:
Class Type:

9

1

0

Unknown Qty Spilled:
No
Quantity Recovered:
False
Petroleum

Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464

Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum

Chem Abstract Service Number: #2 FUEL OIL
Last Date: #2 FUEL OIL
12/07/1994
Num Times Material Entry in File: 24464

DEC Remarks: Not reported

Spill Cause: 3k fuel oil tank removed, soil sample results above soil guidance values

. mw requested by dec

36 BINGHAMTON GAS WORKS

SE 291 COURT ST. 1/2-1 BINGHAMTON, NY

3712 ft.

Relative: COAL GAS SITE DESCRIPTION:

Lower Site is on the northern side of Court St. across from the end of Tompkins. Site is south of

the railroad tracks, and east of Liberty.

Actual: 847 ft.

al: ©Copyright 1993 Real Property Scan, Inc.

37 ALMY BROTHERS SITE SSE 8 JACKSON STREET

1/2-1 BINGHAMTON, NY 13903

5030 ft.

840 ft.

Relative: SHWS:

Lower EPA ID:

EPA ID: Not reported Region: 7

Actual: Acres:

Legal Action Type: Dump Facility ID Number 704021

Soil Type: Silt, sand and gravel.

1-2 Acres

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Coal Gas

G000000526

N/A

SHWS S100116032

N/A

Map (D) Direction Distance Distance (ft.) Elevation

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S100116032

ALMY BROTHERS SITE (Continued)

Lat/Long: Current Owner Name: 42 5' 48" / 75 53' 55" *** Multiple Site Owners ***

Current Owner Address:

Not reported Not reported

Owner During Disposal: Operator During Disposal: Stated Operator Address:

Aimy Brothers Almy Brothers 8 Jackson Street Binghamton

State Operator City: State Operator State:

NY

Haz Waste Disposal Period: Cofirmed Haz Waste Qty:

From: unknown To: 04/1989 2,4,5-TP (Silvex): 100 gallons

Analytical Data Available:

Air, Groundwater, Surface Water, Soil, Sediment

Applicable Standards Exceeded: Depth Groundwater:

Groundwater

Legal Action Type:

Range: 5 To 10 Feet. Not reported

Facility Status: Remedial Action: Nature Of Action:

Not reported Complete

Site Description:

Soil and groundwater treatment.

This site is small semi-abandoned old commercial property in the City of Binghamton. It is located in a mixed residential and light commercial area. A large wooden shed was reportedly used for storing pesticides and other assorted chemicals. A number of small spills occurred here over time due to poor housekeeping practices. On April 19, 1989, a major pesticide spill occurred. It caused substantial contamination on the ground near the building. The spill took place directly over groundwater used as a sole source drinking water aquifer. Soil samples were taken in the alleyway adjacent to the building, and analysis confirmed the presence of 2,4,5-TP (Silvex), and 2.4-D. Area residents complained about the odors from the spilled pesticides. Three spill clean-ups were done as an Interim Remedial Measure (IRM) starting in May of 1989 and finishing up later that summer. A

total of 70 fifty-five gallon drums were filled with contaminated soil. Large polyethylene sheets were placed over the ground in an attempt to suppress the pesticide odors. The drums and the polyethylene sheets were removed from the property in the mid-1990s. The site was referred to the Attorney General's Office in August of 1990. An EQBA funded Remedial Investigation/Feasibility Study (RI/FS) began in 1991, and was completed in 1993. Limited drum sampling was done by DEC staff in October of 1993 in order to characterize the waste. A Record of Decision (ROD) was signed on March 1, 1994. The ROD called for on-sitesoil treatment. The first phase of construction was to set up a base catalyzed decomposition (BCD) treatment system on the site. This work was completed in the fall of 1995. The second contract for the actual BCD treatment began in the spring of 1996, and was completed in January of 1998. All work specified in the ROD has now been completed. The operation, monitoring and maintenance of the site includes semi-annual groundwater monitoring.

Environmental Problems Assesment: Contamination of soils and groundwater by pesticides, herbicides and petroleum hydrocarbons has occurred at this site. Soil treatment will consist of on-site base catalyzed dechlorination. Groundwater treatment, if needed after the source removal, will consist of extraction & treatment of

the water with granulated activated carbon (GAC).

Health Problems Assesment:

Surface soils, subsurface soils, sediment, groundwater and objects stored at this site were contaminated with pesticides. The area is served by a municipal water supply. Potential exposure concerns associated with this site initially involved vapor from tracked-in contamination penetrating food packaging in a building on the site and direct contact with contaminated surface soils and objects at the site. The food storage area was cleaned and the foods were sampled (1989) and were found to be

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

ALMY BROTHERS SITE (Continued)

S100116032

uncontaminated. There were reports from residents in the community of trespass and contact with contamination on the site. There was also concern that the employees of the businesses that continued to operate on the site would contact surficial contamination. Barriers and fencing were provided to prevent these on-site direct contact exposures. Surface soils, subsurface soils, sediment and contaminated objects on the site were remediated by removal, cleaning, or on-site ex-situ treatment.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BINGHAMTON	\$103482967	TRAVELPORT	RT 11		NY Spills
BINGHAMTON	\$104789141	CHENANGO PLAZA	RT 12		NY Spills
BINGHAMTON	\$104284447	EXTRA MART	RT 12 / PORT RD		NY Spills
BINGHAMTON		RED BARREL	RT 12 / 12A		NY Spills
BINGHAMTON	1004758225	DAY & NIGHT #6	RTE 12 & PORT RD	13901	RCRA-SQG, FINDS
BINGHAMTON	\$104646233		RT 17 E		NY Spills
BINGHAMTON	\$104646035		RT 17 WB		NY Spills
BINGHAMTON	\$102167892	RT 17 & I 81 BRIDGE JOB	RT 17 / RT 81 BRIDGE		NY Spills
BINGHAMTON	\$102243583	RT 17 WB NEXT TO EXIT 68	RT 17 WEST		NY Spills
BINGHAMTON		NYSDOT BIN 105483 - 1 & 2	RTE 17 SUSQUEHANNA RIVER	13901	RCRA-SQG, FINDS
BINGHAMTON		NYSDOT BIN 105485 - 1 & 2	RTE 17 OVER RIVER RD	13901	RCRA-SQG, FINDS
BINGHAMTON	S102166915	GARFIELD TRUCKING	RT 17E.		NY Spills
BINGHAMTON	S104643970		RT 17E. AFTER FRONT ST EX		NY Spills
BINGHAMTON	S104194246	ROADWAY AND STREAM	RT 17EB AT KIRKWOOD LINE		NY Spills
BINGHAMTON	S102164739	RT 17W TRUCK	RT 17W		NY Spills
BINGHAMTON		NYSDOT BIN 1015900	RTE 20 OVER FLY CRK	13901	RCRA-SQG, FINDS
BINGHAMTON		NORFOLK SOUTHERN CORP	SR 214 & 42 & FRONT ST	13901	RCRA-LQG
BINGHAMTON	S102166201	ACCIDENT	EX 3 ONRAMP RT 81		NY Spills
BINGHAMTON		NYSDOT BRIDGE BIN 1013021 & 2	RTE 434 OVER SUSQUEHANNA RIVER	13901	RCRA-SQG, FINDS
BINGHAMTON		TRIBUTARY TO SUS RIVER	ROUTE 7		NY Spills
BINGHAMTON		NYSDOT BRIDGES BIN 1031181 & 2	I 81 OVER RTE 11 & CHENANGO	13901	FINDS, RCRA-LQG
BINGHAMTON	1001128000		181 OVER RTE 7 & BROAD AVE		FINDS, RCRA-LQG
BINGHAMTON	\$104643857		HIGHWAY 81-EXIT 2W		NY Spills
BINGHAMTON		TRAFFIC ACCIDENT	181-N EXIT 5		NY Spills
BINGHAMTON		NYSDOT BIN 1063340	RTE 989 BRIDGE CADOSIA CREEK	13901	RCRA-SQG, FINDS
BINGHAMTON		THERMO KING OF BINGHAMTON	AERTIAL HWY		FINDS
BINGHAMTON		BINGHAMTON AIRPORT	AIRPORT RD		NY Spills
BINGHAMTON		CHENANGO (T) SLF	AIRPORT ROAD	13901	SWF/LF
BINGHAMTON		B'TON TRAVEL PLAZA	BINGHAMTON TRAVEL PLAZA	14-01	LTANKS
BINGHAMTON	S104643665		BINGHAMTON STATE OFF.BLDG		NY Spills
BINGHAMTON		STYRENE MONOMER	BINGHAMTON HWY / FREDRICK		NY Spills
BINGHAMTON		BOCES BINGHAMTON	BOCES		NY Spills
BINGHAMTON		NYS&W RAILROAD	BRANDYWINE HWY BOX 2086		LTANKS
BINGHAMTON		LIBERTY ST YARD	BRANDYWINE AV		NY Spills
BINGHAMTON		DRUMS - R.R. TRACKS	BRANDYWINE AVETRACKS		NY Spills
BINGHAMTON		CHENANGO RIVER - SHEEN	CHENANGO RIVER		NY Spilts
BINGHAMTON	1004761899	NYSDOT	CHENANGO ST OVER NS &	13901	FINDS, RCRA-LQG
BINGHAMTON		BINGHAMTON-JOHNSON CITY COMPOST	CITY HALL; GOV PLAZA		SWF/LF
BINGHAMTON		KAY TERMINALS, BINGHAMTON	CLINTON STREET		NY Spills
BINGHAMTON	1000185757		ELDREDGE ST	13901	RCRA-SQG, FINDS
BINGHAMTON		BOLUS TRUCKING	RT.81, ENTR. #6 SOUTH		NY Spills
BINGHAMTON		RT.81 SOUTHBOUND	EXIT 17 WESTBOUND RAMP		NY Spills
BINGHAMTON		TRANSFORMER - KROEHLER	E, FRED, ROBINSON, GRISWOL		NY Spills

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BINGHAMTON	S104646945		FRONT ST		NY Spills
BINGHAMTON	S102165805	FRONT ST.; ACADEMY PAVING	FRONT STREET		NY Spills
BINGHAMTON	\$102165673	GALLAHER GAS STATION	FRONT ST.		NY Spills
BINGHAMTON	S104193095	BROOME CO. SHERIFF'S DEPT	FRONT ST.		NY Spills
BINGHAMTON	U003313761	CORBISELLO QUARRIES INC.	FRONT ST.		UST
BINGHAMTON	1003864274	NYSEG NOYSE ISLAND	JUNCTIO OF ELDRIGE & WATER STR	13901	
BINGHAMTON	S105235279	LAUGHLIN CREEK	LAUGHLIN RD/RTE 11		NY Spills
BINGHAMTON	\$103567300	BINGHAMTON POST OFFICE	LEWIS ST.		NY Spills
BINGHAMTON	S104643772		LIBERTY ST.		NY Spills
BINGHAMTON	\$106006692	RT 81 SB	NORTH OF EX 6		NY Spills
BINGHAMTON	S104643929		OFF ROBINSON ST.		NY Spills
BINGHAMTON	1000234707	BINGHAMTON	OLD VESTAL RD.		LTANKS
BINGHAMTON	S105995907	T/DICKINSON OFFICES	OLD FRONT STREET		LTANKS
BINGHAMTON	S102164907	OLD STATE RD	OLD STATE RD		NY Spills
BINGHAMTON	\$102447578	BINGHAMTON PSCY CENTER	ROBINSON / WINDYHILL ROAD		NY Spills
BINGHAMTON	S106015625	CALVIN COOLIDGE SCHOOL	ROBINSON STREET		NY Spills
BINGHAMTON	S102165321	MERCURY - PSYCH, CENTER	ROBINSON ST. PSYCH. CENTE		NY Spills
BINGHAMTON	1000329088	SUNOCO SERVICE STATION	W STATE ST NS	13901	RCRA-SQG, FINDS
BINGHAMTON	S104282786	BINGHAMTON RAIL YARD	STUB TRACK		NY Spills
BINGHAMTON	S102167940	SUSQUEHANNA - STORMDRAIN	SUSQ. R. EAST OF STATE ST		NY Spills
BINGHAMTON	S102166617	STATE ST. BRIDGE	SUSQ. RIVER NEAR STATE ST		NY Spills
BINGHAMTON	S106012681	HESS STATION #32378	1454 UPPER FRONT STREET	13901	NY Spills
BINGHAMTON	1001079987	BINGHAMTON CITY BRIDGE BIN 2226170	SOUTH WASHINGTON ST OVER	13901	FINDS, RCRA-LQG
BINGHAMTON	S104284643	NORFOLK SOUTHERN R.R.	WATER STREET		NY Spills
BINGHAMTON	S106437372	DOUGLASS & BRADLEY	11 WATER ST.	13901	DRYCLEANERS
BINGHAMTON	S104195711	RESIDENCE	6 NORTH WINDY RD		NY Spills

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement

of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List Source: EPA Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/12/04 Date Made Active at EDR: 12/09/04

Elapsed ASTM days: 37 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 11/02/04

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA Telephone: N/A

Date of Government Version: 09/23/04

Date Made Active at EDR: 12/09/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/02/04

Date of Data Arrival at EDR: 11/02/04

Elapsed ASTM days: 37

Date of Last EDR Contact: 11/02/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL

EPA Region 6

FPA Region 8

Telephone: 214-655-6659

Telephone: 303-312-6774

Date of Government Version: 08/10/04 Date Made Active at EDR: 10/27/04

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/04

Elapsed ASTM days: 36

Date of Last EDR Contact: 09/21/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found. contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 08/10/04 Date Made Active at EDR: 10/27/04 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 09/21/04 Elapsed ASTM days: 36 Date of Last EDR Contact: 09/21/04

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/23/04 Date Made Active at EDR: 11/18/04 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 10/07/04 Elapsed ASTM days: 42

Date of Last EDR Contact: 12/07/04

RCRA: Resource Conservation and Recovery Act Information

Source: EPA

Telephone: 800-424-9346

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 08/10/04 Date Made Active at EDR: 10/11/04 Database Release Frequency: Varies Date of Data Arrival at EDR: 08/24/04

Elapsed ASTM days: 48

Date of Last EDR Contact: 11/24/04

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03 Date Made Active at EDR: 03/12/04 Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04

Elapsed ASTM days: 46

Date of Last EDR Contact: 10/25/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01 Database Release Frequency: Biennially Date of Last EDR Contact: 09/20/04

Date of Next Scheduled EDR Contact: 12/13/04

CONSENT: Superfund (CERCLA) Consent Decrees Source: Department of Justice, Consent Decree Library

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/05/04 Database Release Frequency: Varies Date of Last EDR Contact: 10/25/04 Date of Next Scheduled EDR Contact: 01/24/05

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical

and health information to aid in the cleanup.

Date of Government Version: 09/09/04

Database Release Frequency: Annually

Date of Last EDR Contact: 10/06/04

Date of Next Scheduled EDR Contact: 01/03/05

DELISTED NPL: National Priority List Deletions

Source: EPA Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the

NPL where no further response is appropriate.

Date of Government Version: 10/12/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/02/04

Date of Next Scheduled EDR Contact: 01/31/05

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/09/04 Database Release Frequency: Quarterly Date of Last EDR Contact: 09/08/04
Date of Next Scheduled EDR Contact: 01/03/05

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/08/04 Database Release Frequency: Annually Date of Last EDR Contact: 10/28/04
Date of Next Scheduled EDR Contact: 01/17/05

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency,

EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/15/04 Database Release Frequency: Quarterly Date of Last EDR Contact: 10/04/04

Date of Next Scheduled EDR Contact: 01/03/05

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 09/13/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/28/04

Date of Next Scheduled EDR Contact: 12/27/04

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability.

USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/22/04

Date of Next Scheduled EDR Contact: 02/21/05

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers

of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/29/04 Database Release Frequency: Annually Date of Last EDR Contact: 11/12/04

Date of Next Scheduled EDR Contact: 02/07/05

DOD: Department of Defense Sites

Source: USGS

Telephone: 703-692-8801

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 11/12/04

Date of Next Scheduled EDR Contact: 02/07/05

UMTRA: Uranium Mill Tailings Sites Source: Department of Energy Telephone: 505-845-0011

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases fallings were used as construction materials before the potential health hazards of the tailings were recognized. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 04/22/04 Database Release Frequency: Varies

Date of Last EDR Contact: 09/20/04
Date of Next Scheduled EDR Contact: 12/20/04

ODI: Open Dump Inventory

Source: Environmental Protection Agency

Telephone: 800-424-9346

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/85

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers

is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/03 Database Release Frequency: Varies Date of Last EDR Contact: 10/04/04

Date of Next Scheduled EDR Contact: 01/03/05

INDIAN RESERV: Indian Reservations

Source: USGS

Telephone: 202-208-3710

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 10/01/03 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 11/12/04

Date of Next Scheduled EDR Contact: 02/07/05

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/06/04

Date of Next Scheduled EDR Contact: 03/07/05

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and

land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/02

Database Release Frequency: Annually

Date of Last EDR Contact: 09/20/04

Date of Next Scheduled EDR Contact: 12/20/04

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

site.

Date of Government Version: 12/31/02 Database Release Frequency: Every 4 Years Date of Last EDR Contact: 12/06/04

Date of Next Scheduled EDR Contact: 03/07/05

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/07/04

Date of Next Scheduled EDR Contact: 12/20/04

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01 Database Release Frequency: Annually Date of Last EDR Contact: 10/18/04
Date of Next Scheduled EDR Contact: 01/17/05

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 09/13/04 Database Release Frequency: Quarterly Date of Last EDR Contact: 09/07/04

Date of Next Scheduled EDR Contact: 12/20/04

STATE OF NEW YORK ASTM STANDARD RECORDS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Source: Department of Environmental Conservation

Telephone: 518-402-9553

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/01/03 Date Made Active at EDR: 03/12/04 Database Release Frequency: Annually Date of Data Arrival at EDR: 02/27/04 Elapsed ASTM days: 14

Date of Last EDR Contact: 11/23/04

SWF/LF: Facility Register

Source: Department of Environmental Conservation

Telephone: 518-457-2051

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/01/04 Date Made Active at EDR: 11/29/04 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 11/01/04 Elapsed ASTM days: 28 Date of Last EDR Contact: 11/01/04

LTANKS: Spills Information Database

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 07/26/04 Date Made Active at EDR: 08/26/04 Database Release Frequency: Varies Date of Data Arrival at EDR: 08/04/04 Elapsed ASTM days: 22 Date of Last EDR Contact: 10/25/04

UST: Petroleum Bulk Storage (PBS) Database Source: Department of Environmental Conservation

Telephone: 518-402-9549

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 01/01/02 Date Made Active at EDR: 03/22/02

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/20/02 Elapsed ASTM days: 30 Date of Last EDR Contact: 10/25/04

CBS UST: Chemical Bulk Storage Database

Source: NYSDEC Telephone: 518-402-9549

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/02 Date Made Active at EDR: 03/22/02

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/20/02

Elapsed ASTM days: 30

Date of Last EDR Contact: 10/25/04

MOSF UST: Major Oil Storage Facilities Database

Source: NYSDEC Telephone: 518-402-9549

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or

greater.

Date of Government Version: 01/01/02 Date Made Active at EDR: 03/22/02 Database Release Frequency: Varies Date of Data Arrival at EDR: 02/20/02

Elapsed ASTM days: 30

Date of Last EDR Contact: 10/25/04

VCP: Voluntary Cleanup Agreements

Source: Department of Environmental Conservation

Telephone: 518-402-9711

The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 06/29/04 Date Made Active at EDR: 08/16/04 Date of Data Arrival at EDR: 06/29/04

Elapsed ASTM days: 48

Date of Last EDR Contact: 09/27/04

SWRCY: Registered Recycling Facility List

Source: Department of Environmental Conservation

Database Release Frequency: Semi-Annually

Telephone: 518-402-8705 A listing of recycling facilities.

Date of Government Version: 11/15/04 Date Made Active at EDR: 12/15/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/15/04

Elapsed ASTM days: 30

Date of Last EDR Contact: 11/15/04

SWTIRE: Registered Waste Tire Storage & Facility List Source: Department of Environmental Conservation

Telephone: 518-402-8694

Date of Government Version: 04/01/04 Date Made Active at EDR: 06/25/04 Database Release Frequency: Annually Date of Data Arrival at EDR: 05/19/04

Elapsed ASTM days: 37

Date of Last EDR Contact: 11/18/04

STATE OF NEW YORK ASTM SUPPLEMENTAL RECORDS

HSWDS: Hazardous Substance Waste Disposal Site Inventory

Source: Department of Environmental Conservation

Telephone: 518-402-9564

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 09/01/02

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/29/04

Date of Next Scheduled EDR Contact: 02/28/05

AST: Petroleum Bulk Storage

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Registered Aboveground Storage Tanks.

Date of Government Version: 01/01/02

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04

Date of Next Scheduled EDR Contact: 01/24/05

CBS AST: Chemical Bulk Storage Database

Source: NYSDEC Telephone: 518-402-9549

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater,

and/or in underground tanks of any size.

Date of Government Version: 01/01/02

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04

Date of Next Scheduled EDR Contact: 01/24/05

MOSF AST: Major Oil Storage Facilities Database

Source: NYSDEC Telephone: 518-402-9549

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or

greater.

Date of Government Version: 01/01/02

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04

Date of Next Scheduled EDR Contact: 01/24/05

SPILLS: Spills Information Database

Source: Department of Environmental Conservation

Telephone: 518-402-9549

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active

as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 07/26/04 Database Release Frequency: Varies Date of Last EDR Contact: 10/25/04

Date of Next Scheduled EDR Contact: 01/24/05

DEL SHWS: Delisted Registry Sites

Source: Department of Environmental Conservation

Telephone: 518-402-9553

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 04/01/04 Database Release Frequency: Annually Date of Last EDR Contact: 11/23/04

Date of Next Scheduled EDR Contact: 02/21/05

DRYCLEANERS: Registered Drycleaners

Source: Department of Environmental Conservation

Telephone: 518-402-8403

A listing of all registered drycleaning facilities.

Date of Government Version: 06/15/04 Database Release Frequency: Varies Date of Last EDR Contact: 05/21/04
Date of Next Scheduled EDR Contact: N/A

SPDES: State Pollutant Discharge Elimination System Source: Department of Environmental Conservation

Telephone: 518-402-8233

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 09/23/04

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/10/04

Date of Next Scheduled EDR Contact: 02/07/05

AIRS: Air Emissions Data

Source: Department of Environmental Conservation

Telephone: 518-402-8452

Date of Government Version: 12/31/02

Database Release Frequency: Annually

Date of Last EDR Contact: 12/06/04

Date of Next Scheduled EDR Contact: 02/21/05

LOCAL RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing

Source: Cortland County Health Department

Telephone: 607-753-5035

Date of Government Version: 10/07/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/04

Date of Next Scheduled EDR Contact: 02/28/05

Cortland County Storage Tank Listing

Source: Cortland County Health Department

Telephone: 607-753-5035

Date of Government Version: 10/07/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/04

Date of Next Scheduled EDR Contact: 02/28/05

NASSAU COUNTY:

Registered Tank Database

Source: Nassau County Health Department

Telephone: 516-571-3314

Date of Government Version: 05/21/03

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/01/04

Date of Next Scheduled EDR Contact: 01/31/05

Date of Next Scheduled EDR Contact: 01/31/05

Registered Tank Database

Source: Nassau County Health Department

Telephone: 516-571-3314

Date of Government Version: 05/21/03

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/01/04

Storage Tank Database

Source: Nassau County Office of the Fire Marshal

Telephone: 516-572-1000

Date of Government Version: 05/25/04

Database Release Frequency: Varies

Date of Last EDR Contact: 11/08/04

Date of Next Scheduled EDR Contact: 02/07/05

Storage Tank Database

Source: Nassau County Office of the Fire Marshal

Telephone: 516-572-1000

Date of Government Version: 05/25/04

Database Release Frequency: Varies

Date of Last EDR Contact: 11/08/04

Date of Next Scheduled EDR Contact: 02/07/05

ROCKLAND COUNTY:

Petroleum Bulk Storage Database

Source: Rockland County Health Department

Telephone: 914-364-2605

Date of Government Version: 10/27/04

Database Release Frequency: Quarterly

Petroleum Bulk Storage Database

Source: Rockland County Health Department

Telephone: 914-364-2605

Date of Government Version: 10/27/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/04/04

Date of Last EDR Contact: 10/04/04

Date of Next Scheduled EDR Contact: 01/03/05

Date of Next Scheduled EDR Contact: 01/03/05

SUFFOLK COUNTY:

Storage Tank Database

Source: Suffolk County Department of Health Services

Telephone: 631-854-2521

Date of Government Version: 04/16/04

Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/04

Date of Next Scheduled EDR Contact: 02/28/05

Storage Tank Database

Source: Suffolk County Department of Health Services

Telephone: 631-854-2521

Date of Government Version: 04/16/04

Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/04

Date of Next Scheduled EDR Contact: 02/28/05

WESTCHESTER COUNTY:

Listing of Storage Tanks

Source: Westchester County Department of Health

Telephone: 914-813-5161

Listing of underground storage tanks in Westchester County.

Date of Government Version: 08/16/04

Database Release Frequency: Varies

Date of Last EDR Contact: 10/13/04

Date of Next Scheduled EDR Contact: 02/28/05

Listing of Storage Tanks

Source: Westchester County Department of Health

Telephone: 914-813-5161

Listing of aboveground storage tanks in Westchester County.

Date of Government Version: 08/16/04

Database Release Frequency: Varies

Date of Last EDR Contact: 10/13/04

Date of Next Scheduled EDR Contact: 02/28/05

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entitles other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal

BROWNFIELDS DATABASES

Brownfields: Brownfields Site List

Source: Department of Environmental Conservation

Telephone: 518-402-9764

Date of Government Version: 06/29/04

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/27/04

Date of Next Scheduled EDR Contact: 12/13/04

VCP: Voluntary Cleanup Agreements

Source: Department of Environmental Conservation

Telephone: 518-402-9711

The voluntary remedial program uses private monies to get contaminated sites r emediated to levels allowing for

the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 06/29/04

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/27/04

Date of Next Scheduled EDR Contact: 12/13/04

US BROWNFIELDS: A Listing of Brownfields Sites Source: Environmental Protection Agency

Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency; Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services.

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers

Source: Department of Health Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

New York State Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

Coverages are based on official New York State Freshwater Wetlands Maps as described in

Article 24-0301 of the Environmental Conservation Law.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BINGHAMTON PLAZA 33 WEST STATE STREET BINGHAMTON, NY 13901

TARGET PROPERTY COORDINATES

Latitude (North):

42.110699 - 42* 6' 38.5"

Longitude (West):

75.904099 - 75' 54' 14.8"

Universal Tranverse Mercator:

Zone 18 425252.1

UTM X (Meters): UTM Y (Meters):

425252.1 4662249.0

Elevation:

858 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

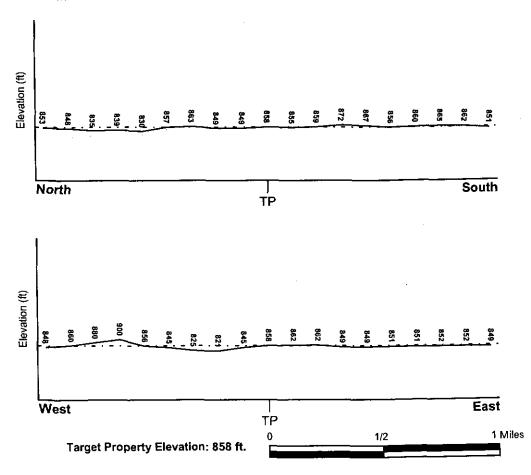
USGS Topographic Map: General Topographic Gradient: General WNW

42075-A8 BINGHAMTON WEST, NY

Source:

USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood

Target Property County BROOME, NY

Electronic Data YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

3600380002C

Additional Panels in search area:

3600440001B

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property BINGHAMTON WEST

Data Coverage

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:

1.25 miles

Status:

Not found

AQUIFLOW®

Search Radius: 1,000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

> LOCATION FROM TP

GENERAL DIRECTION

Not Reported

MAP ID

GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:

Paleozoic

Category: Stratified Sequence

System: Series:

Devonian

Upper Devonian

Code:

D3 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:

URBAN LAND

Soil Surface Texture:

variable

Hydrologic Group:

Not reported

Soil Drainage Class:

Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min:

> 10 inches

Depth to Bedrock Max:

> 10 inches

	,		Soil Layer	Information			
	Воц	ındary		Classi	fication		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam

loamy fine sand channery - silt loam

Surficial Soil Types:

silt loam

loamy fine sand channery - silt loam

Shallow Soil Types:

loam

silt loam

channery - silt loam

Deeper Soil Types:

silt loam

fine sand

silty clay

unweathered bedrock very channery - loam gravelly - loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE

SEARCH DISTANCE (miles)

Federal USGS

1.000

Federal FRDS PWS

Nearest PWS within 1 mile

State Database

1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS0749879	1/4 - 1/2 Mile SW
3	USG\$0749929	1/4 - 1/2 Mile WNW
A4	USGS0749962	1/4 - 1/2 Mile North

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A5	USGS0749964	1/4 - 1/2 Mile North
A6	USGS0749963	1/4 - 1/2 Mile North
A7	USGS0749965	1/4 - 1/2 Mile NNW
A8	USGS0750026	1/4 - 1/2 Mile North
A9	USGS0750027	1/4 - 1/2 Mile North
A11	USGS0750030	1/4 - 1/2 Mile North
A12	USGS0750029	1/4 - 1/2 Mile North
A13	USGS0750031	1/4 - 1/2 Mile North
14	USGS0749823	1/4 - 1/2 Mile ESE
B15	USGS0749824	1/4 - 1/2 Mile WSW
B16	USGS0749880	1/4 - 1/2 Mile WSW
C17	USGS0749812	1/4 - 1/2 Mile WSW
C18	USGS0749810	1/4 - 1/2 Mile WSW
C19	USGS0749811	1/4 - 1/2 Mile WSW
20	USGS0749968	1/2 - 1 Mile NNW
C21	USGS0749876	1/2 - 1 Mile WSW
C22	USGS0749813	1/2 - 1 Mile WSW
C23	USGS0749869	1/2 - 1 Mile WSW
D24	USGS0749889	1/2 - 1 Mile West
D25	USGS0749886	1/2 - 1 Mile WSW
26	U\$G\$0749866	1/2 - 1 Mile WSW
D27	USGS0749825	1/2 - 1 Mile WSW
E28	USGS0749860	1/2 - 1 Mile SW
E29	USGS0749798	1/2 - 1 Mile SW
30	USGS0749872	1/2 - 1 Mile WSW
31	USGS0750038	1/2 - 1 Mile NE
F33	USGS0749854	1/2 - 1 Mile SE
34	USGS0749883	1/2 - 1 Mile West
35	USGS0749884	1/2 - 1 Mile West
36	USGS0749881	1/2 - 1 Mile West
G37	USGS0749804	1/2 ~ 1 Mile WSW
38	USGS0749899	1/2 - 1 Mile West
G39	USGS0749861	1/2 - 1 Mile WSW
H40	USGS0749757	1/2 - 1 Mile SW
41	USGS0749912	1/2 - 1 Mile East
H42	USGS0749758	1/2 - 1 Mile SW
143	USGS0749751	1/2 - 1 Mile SSW
J 44	USGS0749802	1/2 - 1 Mile WSW
145	USGS0749748	1/2 - 1 Mile SSW
J46	USGS0749799	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
1	NY0001651	1/8 - 1/4 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

STATE DATABASE WELL INFORMATION

MAP ID

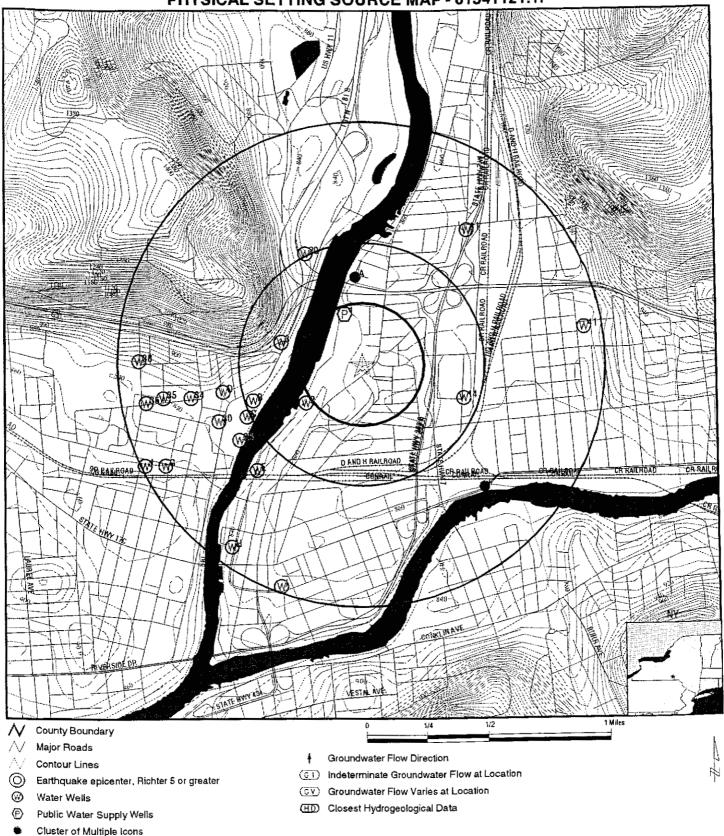
WELL ID

ID FROM TP

A10 F32 NYWS003422 NYWS003455 1/4 - 1/2 Mile North 1/2 - 1 Mile SE

LOCATION

PHYSICAL SETTING SOURCE MAP - 01341121.1r



TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG: Binghamton Plaza 33 West State Street Binghamton NY 13901 42.1107 / 75.9041 CUSTOMER: CONTACT: INQUIRY #: InteGreyted Consultants, LLC Mark J Schumacher

INQUIRY #: 01341121.1r DATE: 01341121.1r January 13, 2005 8:17 am

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance EDR ID Number Elevation Database NY0001651 **FRDS PWS** NNW 1/8 - 1/4 Mile Lower PWS ID: NY0001651 PWS Status: Active Date Initiated: Not Reported Date Deactivated: Not Reported PWS Name: **BINGHAMTON CITY** CITY HALL BINGHAMTON, NY 13901 Addressee / Facility: System Owner/Responsible Party **CRABB JUANITA** CITY OF BINGHAMTON CITY HALL BINGHAMTON, NY 13901 Facility Latitude: 42 06 10 Facility Longitude: 075 53 47 Facility Latitude: 42 06 49 Facility Longitude: 075 54 21 Facility Latitude: 42 06 05 Facility Longitude: 075 53 44 BINGHAMTON (C) City Served: Treatment Class Not Reported Not Reported Population: PWS currently has or had major violation(s) or enforcement: Nο USGS0749879 FED USGS 1/4 - 1/2 Mile 420630075543201 USGS Agency: Site ID: Site Name: BM 164 42.10841 Dec. Latitude: -75.90853 Dec. Longitude: Coord Sys: NAD83 NY State: County: Broome County 850.00 Altitude: 02050102 Hydrologic code: Topographic: Valley flat Site Type: Ground-water other than Spring Const Date: 19460101 inven Date: Not Reported Well Type: Single well, other than collector or Ranney type Primary Aquifer: 110QRNR Aquifer type: Not Reported Well depth: 49.0 Not Reported Not Reported Hole depth: Source: Project no: Not Reported Ground-water levels, Number of Measurements: 1 Feet below Feet to Sealevel Date Surface

1947-10-01 10.00

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance EDR ID Number_ Elevation Database USGS0749929 **FED USGS** WNW 1/4 - 1/2 Mile Lower 420643075543901 USGS Agency: Site ID: Site Name: BM 197 Dec. Latitude: 42.11202 Dec. Longitude: -75,91047 Coord Sys: NAD83 State: NY County: **Broome County** 845.00 Altitude: 02050102 Hydrologic code: Topographic: Valley flat Site Type: Ground-water other than Spring Const Date: Not Reported 19460101 Inven Date: Well Type: Single well, other than collector or Ranney type 110QRNR Primary Aquiter. Aquifer type: Not Reported Well depth: 143 Hole depth: Not Reported Source: Not Reported Project no: Not Reported Ground-water levels, Number of Measurements: 1 Feet below Feet to Surface Seafevel Date 1958-09-01 19.00 A4 North USGS0749962 **FED USGS** 1/4 - 1/2 Mile Lower 420656075541901 USGS Agency: Site ID: Site Name: BM 212 Dec. Latitude: 42.11563 -75.90492 Dec. Longitude: Coord Sys: NAD83 State: NY **Broome County** County: 838.00 Altitude: 02050102 Hydrologic code: Topographic: Valley flat Site Type: Ground-water other than Spring Const Date: 19400101 Inven Date: Not Reported Well Type: Single well, other than collector or Ranney type Primary Aquifer: 110QRNR Aquifer type: Not Reported 90.0 Well depth: Not Reported Hole depth: Not Reported Source: Project no: Not Reported

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1940-03-01 6.00

Α5 North 1/4 - 1/2 Mile Lower

FED USGS

USGS0749964

Agency: Site Name:

USGS BM 214 Site ID:

420656075541903

Dec. Latitude: Dec. Longitude:

42.11563 -75.90492 NAD83

Coord Sys: State: County:

NY **Broome County**

Altitude: Hydrologic code: Topographic:

838.00 02050102 Valley flat

Site Type:

Const Date:

Ground-water other than Spring

19460101 Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR Not Reported

Aquifer type: Well depth:

Hole depth: Project no:

74.0

Not Reported Not Reported

Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Date

Feet to Surface Sealevel

1946-09-01 14.00

North 1/4 - 1/2 Mile Lower

FED USGS

420656075541902

USGS0749963

Agency: Site Name: Dec. Latitude: USGS BM 213 Site ID:

42.11563

Coord Sys: State: County:

Dec. Longitude:

-75.90492 NAD83 NY

Altitude: Hydrologic code:

Broome County 838.00 02050102

Topographic:

Valley flat

Site Type:

Ground-water other than Spring

19340101

Inven Date:

Not Reported

Const Date:

Single well, other than collector or Ranney type

Well Type: Primary Aquifer:

1100RNR

Aquifer type:

Not Reported

Well depth:

173

Hole depth: Project no:

Not Reported Not Reported Source:

Not Reported

TC01341121.1r Page A-11

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Feet below

Feet to Sealevel

Date

Surface

1934-01-01 16.00

A7 NNW 1/4 - 1/2 Mile

FED USGS

USGS0749965

Agency: Site Name: USGS BM 215 Site ID:

420656075542301

Dec. Latitude:

42.11563 -75.90603

Dec. Longitude: Coord Sys: State:

NAD83 NY

County: Altitude: Hydrologic code: **Broome County** 830.00 02050102

Topographic: Site Type:

Stream channel Ground-water other than Spring

Const Date:

19650101

Inven Date:

Not Reported

Well Type:

Single well, other than collector or Ranney type 110QRNR

Primary Aquifer: Aquifer type:

Not Reported

Well depth: Hole depth: Project no:

56.0

Not Reported Not Reported Source:

Not Reported

Ground-water levels, Number of Measurements: 0

A8 North 1/4 - 1/2 Mile Lower

FED USGS

420657075541701

USGS0750026

Agency:

USGS

Site ID:

Site Name: Dec. Latitude: BM 216 42.11591 -75.90436

Dec. Longitude: Coord Sys: State:

NAD83 NY

County: Altitude: **Broome County** 838.00

Hydrologic code:

02050102 Valley flat

Topographic:

Site Type:

Ground-water other than Spring

Const Date:

19460101 Inven Date: Single well, other than collector or Ranney type

Well Type: Primary Aquifer: Aquifer type:

110QRNR Not Reported

Well depth: Hole depth: 54.0

Not Reported

Source:

Not Reported

Not Reported

Project no:

Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1946-09-01 11.00

A9 North 1/4 - 1/2 Mile Lower

FED USGS

USGS0750027

Agency:

USGS

Site ID:

Site Name:

BM 217

420657075541801

Dec. Latitude: Dec. Longitude: Coord Sys:

42.11591 -75.90464 NAD83

State: County: NY **Broome County**

Altitude: Hydrologic code: 835.00 02050102

Topographic: Site Type:

Valley flat

Ground-water other than Spring

Const Date:

19460101 Inven Date:

Weil Type: Primary Aquifer: Single well, other than collector or Ranney type

Aquifer type:

110QRNR Not Reported

Well depth:

Hole depth: Project no:

66.0 Not Reported

Not Reported

Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to

Date

Surface

Sealevel

1946-09-01 11.00

A10 North 1/4 - 1/2 Mile Lower

NY WELLS

NYWS003422

Well Id: System Id: NY0301651

System name: Well name:

BINGHAMTON (C) OLMSTEAD WELL

Type:

003 WL

Active?: Latitude:

County: Longitude: **BROOME COUNTY** 755415.54

Slec_type_:

420658.26 AC

Agency:

BINGHAMTON, CITY OF - MAYOR

Address:

GOVERNMENTAL PLAZA 38 HAWLEY STREET

City/State/Zip:

BINGHAMTON NY 13901

Phone:

607-772-7001

A11 North 1/4 - 1/2 Mile Lower

FED USGS

USGS0750030

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:

USGS BM 219

Site 1D:

420658075541602

Site Name:

Dec. Latitude:

42.11619 -75.90408

Dec. Longitude: Coord Sys: State:

NAD83 NY

County: Altitude: **Broome County** 840.00

Hydrologic code: Topographic:

02050102 Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19650101

Well Type: Primary Aquiter: Single well, other than collector or Ranney type

Aquifer type:

110QRNR Not Reported

Well depth:

44.0

Hole depth: Not Reported Source:

Inven Date:

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Date

Surface

Feet to Sealevel

1966-04-01 14.00

North 1/4 - 1/2 Mile Lower

FED USGS

USGS0750029

Agency: Site Name:

USGS BM 218 Site ID:

420658075541601

Dec. Latitude: Dec. Longitude:

42.11619 -75.90408 NAD83

Coord Sys: State: County:

NY **Broome County** 840.00

Altitude: Hydrologic code:

02050102

Topographic:

Valley flat

Site Type: Const Date: Ground-water other than Spring 19630101

Inven Date:

Source:

Not Reported

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer: Aquifer type:

110QRNR Not Reported

Well depth:

Hole depth: Project no:

43.0 Not Reported

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1963-06-01 11.00

A13 North 1/4 - 1/2 Mile Lower

FED USGS

USGS0750031

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:

USGS

Site ID:

420658075541603

Site Name:

BM 220

Dec. Latitude: Dec. Longitude: 42,11619 -75.90408

Coord Sys: State:

NAD83

County:

Broome County

Altitude: Hydrologic code: 840.00 02050102

Topographic:

Valley flat

Site Type:

Ground-water other than Spring

Const Date: Well Type:

19650101

Inven Date: Single well, other than collector or Ranney type Not Reported

Primary Aquifer:

110QRNR

Aquifer type:

Not Reported

Well depth: Hole depth: 51.0

Not Reported

Source:

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Date

Feet to Surface Sealevel

1965-06-01 17.00

1/4 - 1/2 Mile Lower

FED USGS

USGS0749823

Agency:

Site Name:

USGS BM 171

Site ID:

Source:

420631075534701

Dec. Latitude: Dec. Longitude:

42.10869 -75.89603 NAD83

Coord Sys: State: County:

NY **Broome County**

Altitude:

843.00 02050102

Hydrologic code: Topographic:

Alluvial or marine terrace

Site Type: 19460101

Const Date:

Ground-water other than Spring

Not Reported Inven Date:

Well Type: Primary Aquifer: Single well, other than collector or Ranney type 110QRNR

Aquifer type:

Not Reported

Well depth:

119

Hole depth:

Not Reported

Project no:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1966-11-01 14.00

B15 WSW 1/4 - 1/2 Mile Lower

FED USGS

USGS0749824

Agency:

USGS BM 172

Site (D:

420631075544601

Site Name:

Dec. Latitude:

42.10869 -75.91242

Dec. Longitude: Coord Sys:

NAD83

State: County: NY **Broome County**

Altitude:

840.00

Hydrologic code:

02050102

Topographic: Site Type:

Valley flat

Const Date:

Ground-water other than Spring

19670101

Inven Date:

Source:

Site ID:

Single well, other than collector or Ranney type

Well Type: Primary Aquifer:

110QRNR

Aquifer type:

Not Reported

Well depth:

115 Hole depth:

Not Reported

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1967-05-01 17.00

B16 WSW 1/4 - 1/2 Mile Lower

FED USGS

420630075544801

USGS0749880

Agency:

Site Name:

USGS BM 165

Dec. Latitude: Dec. Longitude: 42,10841 -75.91297

Coord Sys: State:

NAD83 NY

County:

Broome County

Altitude:

842.00

Hydrologic code:

02050102

Topographic:

Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19670101 Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR

Aquifer type:

Not Reported 25.0

Well depth:

Not Reported

Source:

Not Reported

Not Reported

Hole depth: Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1967-05-01 21.00

C17 WSW 1/4 - 1/2 Mile Lower

FED USGS

Agency:

USGS

Site ID:

420627075544802

Site Name: Dec. Latitude: BM 593 42.10758

Dec. Longitude: Coord Sys:

-75.9127 NAD83 NY

State: County: Altitude:

Broome County Not Reported

Hydrologic code: Topographic:

02050103 Valley flat

Site Type:

Ground-water other than Spring

Inven Date:

Not Reported

Const Date: Well Type:

Not Reported Single well, other than collector or Ranney type

Primary Aquiter: Aquifer type:

Not Reported

Well depth:

Not Reported Not Reported

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Ground-water levels, Number of Measurements: 0

C18 WSW 1/4 - 1/2 Mile

FED USGS

USGS0749810

Lower

Agency:

USGS BM 156 Site ID:

420627075544701

Site Name: Dec. Latitude: Dec. Longitude:

42.10758 -75.9127

Coord Sys: State:

NAD83 NY **Broome County**

County: Altitude: Hydrologic code: Topographic:

842.00 02050102

Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19670101 Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer: Aquifer type:

110QRNR Not Reported

Well depth:

118

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements; 1

Feet below

Feet to

Date

Surface

Sealevel

1967-08-01 18.00

C19 WSW 1/4 - 1/2 Mile Lower

FED USGS

Agency:

USGS

Site ID:

420627075544703

Not Reported

Site Name:

BM 597 Dec. Latitude: 42.10758 Dec. Longitude: Coord Sys:

-75.9127 NAD83 NY

State: County:

Broome County

Altitude: Hydrologic code: 842.00 02050102

Topographic:

Valley flat

Site Type:

Const Date:

Ground-water other than Spring

Inven Date: Single well, other than collector or Ranney type

Well Type: Primary Aquifer:

Not Reported

Aquifer type:

Not Reported

Well depth: Hole depth: 20 29

Source:

reporting agency (generally USGS)

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface Sealevel

1967-08-04 19.03

20 NNW 1/2 - 1 Mile

FED USGS

USGS0749968

Agency:

Site Name:

BM 222

USGS

Site ID:

420702075543201

Dec. Latitude: Dec. Longitude:

42.1173 -75.90853 NAD83 NY

Coord Sys: State: County:

Broome County

Altitude: Hydrologic code: 838.00 02050102

Topographic:

Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19460101 Inven Date:

Well Type: Primary Aquiter: Single well, other than collector or Ranney type

Aquifer type:

110QRNR

Not Reported 46.0

Well depth: Hole depth: Project no:

Not Reported Not Reported Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1947-10-01 7.00

C21 WSW 1/2 - 1 Mile Lower

FED USGS

Agency:

USGS

Site ID:

420629075545101

Site Name: Dec. Latitude: BM 161 42.10813

Dec. Longitude: Coord Sys:

-75.91381 NAD83

State: County: NY **Broome County**

Altitude: Hydrologic code: 840.00 02050102

Topographic:

Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19460101 Inven Date:

Well Type: Primary Aquifer:

Single well, other than collector or Ranney type

Aquifer type:

110QRNR Not Reported

Well depth:

106

Hole depth: Not Reported

Source:

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Surface

Feet to Sealevel

1946-02-01 20.00

C22 WSW 1/2 - 1 Mile

Date

FED USGS

USGS0749813

Lower

Agency: Site Name: USGS BM 157 Site ID:

420627075545101

Dec. Latitude: Dec. Longitude:

42.10758 -75.91381 NAD83 NY

County: Altitude:

Coord Sys:

State:

Broome County 837.00

Hydrologic code: Topographic:

02050102 Valley flat

Site Type:

Ground-water other than Spring

Const Date: Well Type:

19670101

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR

Aquifer type:

Not Reported 115

Well depth: Hole depth:

Not Reported

Source:

Inven Date:

Not Reported

Project no:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1967-05-01 16.00

C23 1/2 - 1 Mile

Lower

FED USGS

Agency:

USGS BM 153 Site ID:

420625075545001

Site Name: Dec. Latitude: Dec. Longitude:

Coord Sys:

42.10702 -75.91353 NAD83

State: County: **Broome County** Altitude: 836.00 02050102 Hydrologic code: Topographic:

Site Type:

Valley flat Ground-water other than Spring

Const Date:

19670101

Inven Date:

Not Reported

Well Type: Primary Aquiter: Single well, other than collector or Ranney type 110QRNR

Aquiter type:

Not Reported

Well depth: Hole depth: Project no:

24.0

Not Reported Not Reported

Source:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Surface

Feet to Sealevel

1967-06-01 17.00

FED USGS

West 1/2 - 1 Mile Lower

D24

Date

Agency:

USGS BM 177 Site ID:

420634075545501

Site Name: Dec. Latitude: 42.10952 Dec. Longitude: -75.91492 NAD83 Coord Sys: NY State:

County: **Broome County** Altitude: 838.00 Hydrologic code: 02050102 Topographic: Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19600101

Inven Date:

Well Type: Primary Aquifer:

Single well, other than collector or Ranney type 110QRNR

Aquifer type:

Not Reported

Well depth:

9.0

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Surface

Feet to

Sealevel

1967-10-01 5.00

D25 WSW 1/2 - 1 Mile Lower

Date

FED USGS

USGS0749886

Agency:

USGS BM 176 Site ID:

420632075545501

Site Name:

Dec. Latitude:

42.10896

Dec. Longitude: Coord Sys:

-75.91492 NAD83

State: County: NY **Broome County**

Altitude:

840.00 02050102

Hydrologic code: Topographic:

Undulating

Site Type:

Const Date:

Ground-water other than Spring

19460101

Inven Date: Single well, other than collector or Ranney type

Well Type: Primary Aquifer:

110QRNR

Aquifer type:

Not Reported

Well depth: Hole depth: 49.0

Not Reported

Source:

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1966-04-01 31.00

26 WSW 1/2 - 1 Mile Lower

FED USGS

USGS0749866

Agency:

Site Name:

USGS BM 588 Site ID:

420622075545101

Dec. Latitude: Dec. Longitude: 42.10619 -75.91381 NAD83 NY

Coord Sys: State: County:

Broome County Not Reported

Altitude: Hydrologic code: Topographic:

02050103 Valley flat

Site Type:

Ground-water other than Spring

Const Date:

Not Reported Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

Not Reported

Aquifer type: Well depth:

Not Reported

Hole depth: Project no:

Not Reported Not Reported Not Reported

Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 0

D27 WSW 1/2 - 1 Mile Lower

FED USGS

Agency:

USGS

Site ID:

420631075545701

Site Name:

BM 173 42.10869

Dec. Latitude: Dec. Longitude:

-75.91547

Coord Sys: State:

NAD83 NY

County: Altitude: **Broome County** 842.00

Hydrologic code:

02050102

Topographic: Site Type:

Valley flat

Ground-water other than Spring

Const Date:

19470101 Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR

Aquifer type:

Not Reported

Well depth: Hole depth:

123 Not Reported

Source:

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface Sealevel

1966-04-01 35.00

SW 1/2 - 1 Mile

FED USGS

U\$G\$0749860

Agency:

Site Name:

USGS **BM 145**

Site ID:

420615075544501

Dec. Latitude: Dec. Longitude:

42.10424 -75.91214 NAD83

Coord Sys: State: County:

NY **Broome County**

Altitude: Hydrologic code: 845.00 02050102

Topographic: Site Type:

Valley flat

Const Date:

Ground-water other than Spring 19460101

Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer: Aquifer type:

110QRNR Not Reported

Well depth:

46.0

Hole depth: Project no:

Not Reported Not Reported Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1966-10-01 19.00

E29 SW 1/2 - 1 Mile Lower

FED USGS

Agency: Site Name: USGS BM 146 Site ID:

420616075544701

Dec. Latitude: Dec. Longitude:

42.10452 -75.9127 NAD83

NY

State: County: Altitude:

Coord Sys:

Broome County 845,00

Hydrologic code: Topographic:

02050102 Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19500101

Inven Date:

Not Reported

Well Type: Primary Aquifer: Single well, other than collector or Ranney type Not Reported

Aquifer type: Well depth:

Not Reported 438

Hole depth:

Not Reported

Source:

Not Reported

Project no: Not Reported

Ground-water levels, Number of Measurements: 0

30 WSW 1/2 - 1 Mile Lower

FED USGS

USGS0749872

Agency:

USGS

Site ID:

420626075545701

Site Name: Dec. Latitude: Dec. Longitude:

Coord Sys:

State:

BM 155 42,1073 -75.91547 NAD83 NY

County: Altitude: Hydrologic code: Topographic:

Broome County 838.00 02050102 Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19670101

Inven Date:

Not Reported

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR

Aquifer type:

Not Reported

Well depth:

107

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1967-06-01 20.00

NE 1/2 - 1 Mile Lower

FED USGS

Agency:

USGS BM 230 Site ID:

420707075534601

Site Name: Dec. Latitude: Dec. Longitude:

42.11869 -75.89575 NAD83

State: County:

Coord Sys:

NY **Broome** County 846.00

Altitude: Hydrologic code: Topographic:

02050102 Alluvial or marine terrace

Site Type: Const Date: Ground-water other than Spring

19460101 Inven Date:

Well Type: Primary Aquifer: Single well, other than collector or Ranney type 110QRNR

Aquifer type: Well depth:

Not Reported 35.0

Hole depth: Not Reported Source:

Not Reported

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to

Surface Date

Sealevel

1966-04-01 11.00

F32 SE 1/2 - 1 Mile

NY WELLS

NYWS003455

Well Id.

System Id: Type:

NY0301651 002

WL

System name: Well name: Active?: Latitude:

BINGHAMTON (C) RANNEY WELL

County: Longitude: Agency:

BROOME COUNTY 755339.96 BINGHAMTON, CITY OF - MAYOR

Slec_type_:

420612.12 АC

Address: City/State/Zip: **GOVERNMENTAL PLAZA 38 HAWLEY STREET**

BINGHAMTON NY 13901

Phone:

607-772-7001

F33 SE 1/2 - 1 Mile

FED USGS

USGS0749854

Lower

Agency: Site Name:

USGS BM 142 Site ID:

420612075534101

Dec. Latitude: Dec. Longitude:

42.10341 -75.89436 NAD83 NY

State: County: Altitude:

Coord Sys:

Broome County 837.00 02050101 Valley flat

Hydrologic code: Topographic:

Ground-water other than Spring

Site Type: Const Date:

19400101

Inven Date:

Not Reported

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR

Aquiter type:

Not Reported

Well depth:

23.0

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Ground-water levels, Number of Measurements: 0

34 West 1/2 - 1 Mile Lower

FED USGS

USGS0749883

Agency:

USG\$

Site ID:

420631075550501

Site Name: Dec. Latitude: Dec. Longitude: BM 174 42.10869 -75.9177 NAD83

Coord Sys: State: County:

NΥ **Broome County**

Altitude: Hydrologic code:

843.00 02050102

Topographic: Site Type:

Valley flat

Const Date:

Ground-water other than Spring

19510101

Inven Date:

Not Reported

Well Type: Primary Aquifer:

Single well, other than collector or Ranney type 110QRNR

Aquifer type:

Not Reported

Weil depth: Hole depth: 100

Not Reported

Source:

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1951-09-01 37.00

West 1/2 - 1 Mile Lower

State:

FED USGS

420631075551301

USGS0749884

Agency: Site Name: Dec. Latitude:

Dec. Longitude: Coord Sys:

USGS BM 175 Site ID:

42.10869 -75.91992 NAD83

County: Altitude: Hydrologic code:

Broome County 838.00

NY

Topographic:

02050102 Valley flat

Site Type:

Const Date:

Ground-water other than Spring

19410101 Inven Date:

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer: Aquifer type:

110QRNR

Well depth:

Not Reported 109

Hole depth: Project no:

Not Reported Not Reported Source:

Not Reported

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Feet to

Date

Surface

Sealevel

1966-04-01 29.00

36 West 1/2 - 1 Mile

FED USGS

USGS0749881

Lower

Agency:

USGS

Site ID:

420630075551801

Site Name: Dec. Latitude: **BM 166** 42.10841 -75.92131

Dec. Longitude: Coord Sys: State:

NAD83 NY

County: Altitude: Hydrologic code:

840.00 02050102

Broome County

Topographic: Site Type:

Valley flat

Const Date:

Ground-water other than Spring

Inven Date:

Not Reported

Weil Type:

19580101 Single well, other than collector or Ranney type

Primary Aquifer:

110QRNR Not Reported

Aquifer type: Well depth:

110

Hole depth: Project no:

Not Reported Not Reported

Source:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet to

Date

Feet below Surface

Sealevel

1958-05-01 30.00

G37 **W\$W** 1/2 - 1 Mile Lower

FED USGS

USGS0749804

Agency:

USGS

Site ID:

420618075551301

Site Name:

BM 150

Dec. Latitude: Dec. Longitude: 42.10508 -75.91992

Coord Sys:

NAD83

State:

County:

NY

Broome County 850.00

Altitude: Hydrologic code:

02050102

Topographic:

Alluvial or marine terrace

Site Type:

Ground-water other than Spring

Inven Date:

Not Reported

Const Date:

Well Type: Primary Aquifer: Single well, other than collector or Ranney type

Aquifer type:

110QRNR

Well depth:

Not Reported

Hole depth:

106 Not Reported

Source:

Not Reported

Project no:

Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to

Surface Date Sealevel

1938-06-01 25.00

USGS0749899 West FED USGS

1/2 - 1 Mile

Agency: USGS 420639075552001 Site ID:

Site Name: BM 190 Dec. Latitude: 42.11091 Dec. Longitude: -75.92186 Coord Sys: NAD83 State: NY

County: **Broome County** Altitude: 852.00 Hydrologic code: 02050102

Topographic: Alluvial or marine terrace Site Type: Ground-water other than Spring

Const Date: 19460101 Not Reported Inven Date:

Well Type: Single well, other than collector or Ranney type

Primary Aquifer: 110QRNR Aquifer type: Not Reported Well depth: 49.8

Hole depth: Not Reported Not Reported Source:

Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1966-10-01 48.00

G39 WSW FED USGS USGS0749861

1/2 - 1 Mile Lower

USGS 420615075551201 Agency: Site ID:

Site Name: BM 660 Dec. Latitude: 42.10424 Dec. Longitude: -75.91964 Coord Sys: NAD83 State: NY

County: **Broome County** Altitude: 857.80 Hydrologic code: Not Reported Topographic: Not Reported

Ground-water other than Spring Site Type:

Const Date: Not Reported Inven Date: Not Reported

Well Type: Single well, other than collector or Ranney type

Not Reported Primary Aquifer: Not Reported Aquifer type: Well depth: 44.0

Hole depth: 47.0 Not Reported Source:

Project no: Not Reported

Ground-water levels, Number of Measurements: 2

Feet below Surface

Feet to

Sealevel

Feet below Date Surface

Feet to Sealevel

1995-05-02 32.91

1994-08-23 34.88

H40

SW 1/2 - 1 Mile Agency:

Date

USGS BM 115 Site ID:

FED USGS

420559075545301

U\$G\$0749757

USGS0749912

Site Name:

Dec. Latitude: Dec. Longitude:

42.0998 -75.91436 NAD83 NY

Coord Sys: State: County:

Altitude: Hydrologic code: **Broome County** 850.00 02050102

Topographic: Site Type:

Alluvial or marine terrace

Const Date:

Ground-water other than Spring 19450101

Inven Date:

Not Reported

Well Type: Primary Aquifer: Single well, other than collector or Ranney type **341SONY**

Aquifer type:

Not Reported 585

Well depth: Hole depth:

Not Reported

Source:

Not Reported

Project no: Not Reported

Ground-water levels, Number of Measurements: 1

Feet below

Surface

Feet to Sealevel

1945-09-01 39.00

East 1/2 - 1 Mile Higher

Date

Agency:

USGS

Site ID:

Source:

420646075531201

Site Name: Dec. Latitude; Local number Bm-100 Binghamton NY 42,11285

Dec. Longitude: Coord Sys:

-75.88631 NAD83 NY

State: County: Altitude:

Broome County 851.05 02050103

Hydrologic code: Topographic:

Valley flat

Site Type:

Ground-water other than Spring

Const Date:

19460823 Inven Date: Single well, other than collector or Ranney type

Well Type: Primary Aquifer:

112SDGV

Aquifer type:

Confined single aquifer

Well depth:

52.3 53.0

Hole depth:

Project no:

Not Reported

FED USGS

Not Reported

Not Reported

	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealeve
1995-08-31	12.32		1995-08-30	12.32	
1995-08-25	12.22		1995-08-20	12.11	
1995-08-15	12.09		1995-08-10	12.04	
1995-08-05	12.11		1995-07-31	12.09	
1995-07-15	11.90		1995-07-10	11.88	
1995-07-05	11.80		1995-06-30	11.71	
1995-06-25	11.63		1995-06-20	11.52	
1995-06-15	11.47		1995-06-10	11.42	
1995-06-05	11.33		1995-05-31	11.25	
				11.20	
1995-05-25	11.25		1995-05-20		
1995-05-15	11.11		1995-05-10	11.07	
1995-05-05	11.01		1995-04-30	10.93	
1995-04-28	10.90		1995-04-25	10.85	
1995-04-20	10.82		1995-04-15	10.91	
1995-04-10	11.11		1995-04-05	11.10	
1995-03-30	11.03		1995-03-28	11.03	
1995-03-25	10.98		1995-03-20	10.97	
1995-03-15	11.01		1 9 95-03-10	11.12	
1995-03-05	11.17		1995-03-01	11.23	
1995-02-28	11.29		1995-02-25	11.36	
1995-02-20	11.39		1995-02-15	11.36	
1995-02-10	11.23		1995-02-05	11.09	
1995-01-31	11.07		1995-01 - 30	11.08	
1995-01-25	11.11		1995-01-20	11.36	
1995-01-15	11.52		1995-01-10	11.52	
1995-01-05	11.48		1994-12-31	11.57	
1994-12-30	11.58		1994-12-25	11.46	
1994-12-20	11.44		1994-12-15	11.43	
1994-12-10	11.49		1994-12-05	11.74	
1994-12-01	11.80		1994-11-01	11.69	
1994-10-31	11.73		1994-10-25	11.67	
1994-10-20	11.55		1994-10-15	11.49	
1994-10-10	11.38		1994-10-05	11.28	
1994-09-30	11.24		1994-09-25	11.38	
1994-09-20	11.28		1994-09-15	11.14	
1994-09-10	11.02		1994-09-05	10.84	
1994-08-31	10.79		1994-08-25	10.88	
1994-08-20	10.92		1994-08-15	11.24	
1994-08-10	11.25		1994-08-05	11.19	
1994-07-31	11.24		1994-07-25	11.17	
	11.10			11.05	
1994-07-20			1994-07-15	10.84	
1994-07-10	10.95		1994-07-05		
1994-06-30	10.84		1994-06-25	10.92	
1994-06-20	10.81		1994-06-15	10.85	
1994-06-10			1994-06-05	10.87	
1994-05-31	10.74		1994-05-25	10.53	
1994-05-20			1994-05-15	10.18	
1994-05-10			1994-05-05	9.78	
1 9 94-04-30			1994-04-25	9.28	
1994-04-20	9.04		1994-04-15	8.93	
19 9 4-04 - 10			1994-04-05	8.66	
1994-03-31	8.53		1994-03-25	9.03	
1994-03-20	9.91		1994-03-15	10.12	
1994-03-10			1994-03-05	10.72	
1994-02-28			1994-02-25	10.72	

	Feet below	ามed. Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealeve
1994-02-20	11.18		1994-02-15	11.17	
1994-02-10	11.13		1994-02-05	10.98	
1994-01-31	11.02		1994-01-25	11.32	
1994-01-20	11.26		1994-01-15	11.15	
1994-01-10	11.09		1994-01-05	10.93	
1994-01-03	10.90		1993-12-31	10.81	
1993-12-25	10.64		1993-12-20	10.83	
1993-12-15	10.74		1993-12-10	10.74	
1993-12-05	10.84		1993-11-30	11.03	
1993-11-29	11.07		1993-11-01	11.88	
1993-10-31	11.96		1993-10-29	12.01	
1993-10-25	12.00		1993-10-20	11.96	
1993-10-15	11.96		1993-10-10	11.91	
1993-10-05	11.81		1993-09-30	11.72	
1993-09-27	11.88		1993-09-25	11.91	
1993-09-20	11.91		1993-09-15	11.91	
1993-09-10	11.77		1993-09-05	11.78	
1993-08-31	11.81	•	1993-08-25	11.73	
1993-08-20	11.67		1993-08-15	11.79	
1993-08-10	11.79		1993-08-05	11.85	
1993-07-31	11.86		1993-07-30	11.88	
1993-07-25	11.80		1993-07-20	11.67	
1993-07-15	11.57		1993-07-10	11.48	
1993-07-05	11.40	-	1993-06-30	11,27	
1993-06-25	11.13		1993-06-20	11.01	
1993-06-15	10.85		1993-06-10	10,75	
1993-06-05	10.67		1993-05-31	10.44	
1993-05-25	10.14		1993-05-20	9.82	
1993-05-15	9.46		1993-05-10	9.08	
1993-05-05	8.65		1993-04-30	8.20	
1993-04-28	8.13		1993-04-25	8.20	
1993-04-20	8.44		1993-04-15	8.54	
1993-04-10	9.45		1993-04-05	9.65	
1993-03-31	10.16		1993-03-25	11,23	
1993-03-20	11.45		1993-03-15	11.51	
1993-03-10	11.45		1993-03-05	11.51	
1993-02-28	11.49		1993-02-25	11.48	
1993-02-20	11.36		1993-02-15	11.31	
1993-02-10	11.19	-	1993-02-05	11.07	
1993-01-31	10.91		1993-01-25	10.89	
1993-01-20	10.79		1993-01-15	10.73	
1993-01-10	10.80		1993-01-05	10.81	
1992-12-31	10.92		1992-12-25	11.05	
1992-12-14			1992-12-10	11.09	
1992-12-05			1992-11-30	10.96	
1992-11-20			1992-11-15	11.13	
1992-11-10			1992-11-05	11.21	
1992-10-31			1992-10-25	11.38	
1992-10-20			1992-10-15	11.50	
1992-10-10			1992-10-05	11.67	
1992-03-25			1992-03-20	11.35	
1992-03-15			1992-03-10	11.56	
1992-03-05			1992-02-29	11.62	
1992-02-25			1992-02-20		
			1992-02-10	11.76	

Ground-wate	r levels, conti				Foot bolow	Feet to
Date	Feet below Surface	Feet to Sealevel	E	Date	Feet below Surface	Sealevel
1992-02-05	11.63		1	1992-01-31	11.53	
1992-01-25	11.58			1992-01-20	11.54	
1992-01-15	11.65		1	1992-01-10	11.61	
1992-01-05	11.61		1	1991-12-31	11.69	
1991-12-25	11.68		1	1991-12-20	11.65	
1991-12-15	11.62		1	1991-12-10	11.63	
1991-12-05	11.67		•	1991-11-30	11.74	
1991-11-25	11.80		•	1991-11-20	12.28	
1991-11-15	12.27		•	1 99 1-11-10	12.39	
1991-11-05	12.38		1	1991-10-31	12.32	
1991-09-25	12.17		•	1991-09-20	12.24	
1991-09-15	12.24			1991-0 9 -10	12.15	
1991-09-05	12.08			1991-08-31	11.95	
1991-08-25	11.87			1991-08-20	11.97	
1991-08-15	12.09			1991-08-10	12.07	
1991-08-05	12.10			1991-07-31	12.04	
1991-07-25	12.03			1991-07-20	11.95	
1991-07-15	11.88			1991-07-10	11.76	
1991-07-05	11.67			1991-06-30	11.58	
1991-06-25	11.49			1991-06-20 1991-06-10	11.36 11.15	
1991-06-15	11.24			1991-06-10	10.89	
1991-06-05 1991-05-25	11.05 10.72			1991-05-20	10.57	
1991-05-15	10.72			1991-05-10	10.26	
1991-05-05				1991-04-30	10.05	
1991-04-25				1991-04-20	10.51	
1991-04-15				1991-04-10	10.38	
1991-04-05				1991-03-31	10.32	
1991-03-25	_			1991-03-20	10.36	
1991-03-15				1991-03-10	10.30	
1991-03-05	10,50			1991-02-28	10.67	
1991-02-25	10.60			1991-02-20	10.69	
1991-02-15	10.69			1991-02-10	10.66	
1991-02-05	10.68			1991-01-31	10.55	
1991-01-25	10.39			1991-01-20	10.22	
1991-01-15				1991-01-10	10.26	
1991-01-05				1990-12-31	10.22	
1990-12-25				1990-12-20	10.51	
1990-12-15				1990-12-10	10.38	
1990-12-05				1990-11-30	10.59	
1990-11-25				1990-11-20	10.34	
1990-11-15				1990-11-10	10.61 10.56	
1990-11-05				1990-10-31	11.34	
1990-10-25 1990-10-15				1990-10-20 1990-10-10	11.74	
1990-10-15				1990-10-10	11.68	
1990-10-05				1990-09-20	11.60	
1990-09-15				1990-09-10	11.48	
1990-09-05				1990-08-31	11.35	
1990-08-10				1990-08-05	11.38	
1990-07-31				1990-07-25	11.27	
1990-07-20				1990-07-15	11.08	
1990-07-10				1990-07-05	10.99	
1990-06-30				1990-06-25	11.13	
1990-06-20				1990-06-15	10.94	
• • •	-			_		

Ground-wate	r levels, conti Feet below			Feet below	Feet to
Date	Surface	Feet to Sealevel	Date	Surface	Sealevel
1990-06-10	10.80		1990-06-05	10.69	
1990-05-31	10.59		1990-05-25	10.59	
1990-05-20	10.60		1990-05-15	10.76	
1990-05-10	10.81		1990-05-05	10.75	
1990-04-30	10.72		1990-04-25	10.63	
1990-04-20	10.58		1990-04-15	10.49	
1990-04-10	10.56		1990-04-05	10.67	
1990-03-31	10.73		1990-03-25	10.71	
1990-03-20	10.75		1990-03-15	10.72	
1990-03-10	10.61		1990-03-05	10.52	
1990-02-28	10.37		1990-02-25	10.36	
1990-02-20	10.35		1990-02-15	10.69	
1990-02-10	10.79		1990-02-05	11.00	
1990-01-31	11.41		1990-01-25	11.72	
1990-01-20	11.94		1990-01-15	11.98	
1990-01-10	11.92		1990-01-05	11.94	
1989-12-31	11.88		1989-12-25	11.80	
1989-12-20	11.74	•	1989-12-15	11.63	
1989-12-10	11.55		1989-12-05	11.49	
1989-11-30	11.43		1989-11-25	11.41	
1989-11-20	11.36		1989-11-15	11.57	
1989-11-10	11.59		1989-11-05	11.58	
1989-10-31	11.54		1989-10-25	11.55	
1989-10-20	11.80		1989-10-15	11.97	
1989-10-10	11.93		1989-10-05	11.83	
1989-09-30	11.76		1989-09-25	11,68	
1989-09-20	11.79		1989-09-15	11.87	
1989-09-10	11.81		1989-09-05	11.74	
1989-08-31	11.65		1989-08-25	11.53	
1989-08-20	11.41		1989-08-15	11.31	
1989-08-10	11.25		1989-08-05	11.17	
1989-07-31	11.10		1989-07-25	11.01	
1 9 89-07-20	10.90		1989-07-15	10.81	
1989-07-10	10.64		1989-07-05	10.6B	
1989-06-30	10. 6 0		1989-06-25	10.48	
1989-06-20	10.47		1989-06-15	10.64	
1989-06-10	10.60		1989-06-05	10.55	
1989-05-31	10.44		1989-05-25	10.27	
1989-05-20			1989-05-15	10.23	
1989-05-10	10.69		1989-05-05	11.09	
1989-04-30			1989-04-25	11.08	
1989-04-20			1989-04-15	11.01	
1989-04-10			1989-04-05	11.32	
1989-03-31			1989-03-25	11.94	
1989-03-20			1989-03-15	12.05	
1989-03-10			1989-03-05	11.98	
1989-02-28			1989-02-27	11.90	
1989-01-30			1988-12-29	11.89	
1988-11-28			1988-10-27	11.78	
1988-09-29			1988-08-29	11.84	
1988-07-28			1988-06-28	11.26	
1988-05-26			1988-04-28	11.24	
1988-03-30			1988-02-26	11.24	
1988-01-28 1987-11-25			1987-12-29	11.35 11.78	
1501-11-23			1987-10-29	11.70	

Ground-wate	r levels, conti					5
Date	Feet below Surface	Feet to Sealevel	Date		Feet below Surface	Feet to Sealevel
1987-09-28	11.64		 1987-	08-28	12.00	
1987-07-29	11.71		1987-		11.41	
1987-05-27	11.00		1987-		10.09	
1987-03-27	10.81		1987-		11.31	
1987-01-27	10.36		1986-		10.57	
1986-11-26	10.90			10-30	11.68	
1986-09-24	11.55		1986-		11.00	
1986-07-29	10.91			06-25	10.54	
1986-05-28	10.52			04-28	10.50	
1986-03-27	9.91			02-25	10.68	
1986-01-29	11.35			12-30	11.02	
1985-11-27	11.13			10-28	11.53	
1985-10-21	11.40			10-14	11.37	
1985-10-07	11.28		1985-		11.26	
1985-09-25	11.34			09-20	11.25	
1985-09-15	11.39			09-10	12.16	
1985-09-05	12.08			08-31	11.98	
1985-08-25	11.95			08-20	11.98	
1985-08-15	11.97			-08-10	11.91	
1985-08-05	11.75			-07-31	11.82	
1985-07-25	11.80			07-20	11.76	
1985-07-15	11.77			07-10	11.94	
1985-07-05	11.87			-06-25	13.18	
1985-06-20	11.81			06-15	11.80	
1985-06-10	11.77			06-05	11.74	
1985-05-31	11.76			05-25	11.79	
1985-05-20	11.77			05-15	11.75	
1985-05-10	11.76			05-05	11.76	
1985-04-25	11.55			-04-20	11.50	
1985-04-15	11.40			04-10	11.28	
1985-04-05	11.25			03-31	11.23	
1985-03-25	11.24			03-20	11.26	
1985-03-15			1985-	-03-10	11.56	
1985-03-05	11.78		1985-	02-28	11.79	
1985-02-25	11.83		1985-	-02-20	11.87	
1985-02-15	11.79		1985-	-02-10	11.81	
1985-02-05	11.74		1985-	-01-31	11.61	
1985-01-25	11.47		1985-	-01-20	11.30	
1985-01-15	11.23		1985-	-01-10	11.26	
1985-01-05	11.21		1984-	-12-31	11.36	
1984-12-25	11.47		1984-	-12-20	11.56	
1984-12-15	11.60		1984-	-12-10	11.66	
1984-12-05	11.75		1984-	-11-30	12.05	
1984-11-25	12.27		1984-	-11-20	12.20	
1984-11-15	12.14		1984-	-11-10	12.14	
1984-11-05	12.14		1984-	-10-31	12.17	
1984-10-25	12.17		1984-	-10-20	12.13	
1984-10-15	12.04		1984-	-10-10	12.00	
1984-10-05	i 11.95		1984-	-09-30	11.87	
1984-09-25	11.77		1984-	-09-20	11.65	
1984-09-15	11.60		1984-	-09-10	11.54	
1984-09-05	11.50		1984-	-08-31	11.44	
1984-08-25	11.28		1984-	-08-20	11.25	
1984-08-15	11.20		1984-	-08-10	11.09	
1984-08-05	10.92		1984-	-07-31	10.81	

	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealeve
1984-07-25	10.88	######################################	1984-07-20	10.71	
1984-07-15	10.59		1984-07-10	10.49	
1984-07-05	10.56		1984-06-30	10.53	
1984-06-25	10.41		1984-06-20	10.27	
1984-06-15	10.15		1984-06-10	9.93	
1984-06-05	9.76		1984-05-31	9.78	
1984-05-25	9.94		1984-05-20	9.83	
1984-05-15	9.83		1984-05-10	9.80	
1984-05-05	9.63		1984-04-30	9.45	
1984-04-25	9.19		1984-04-20	9.31	
1984-04-15	9.51		1984-04-10	9.55	
1984-04-05	10.22		1984-03-31	10.65	
1984-03-25	10.62		1984-03-20	10.56	
1984-03-15	10.53		1984-03-10	10.44	
1984-03-05	10.28		1984-02-29	10.22	
1984-02-25	10.30		1984-02-20	10.47	
1984-02-15	11.05		1984-02-10	11.22	
1984-02-05	11.15	.	1984-01-31	11.17	
1984-01-25	11.14		1984-01-20	11.08	
1984-01-15	10.89		1984-01-10	10.69	
1984-01-05	10.47		1983-12-31	10.46	
1983-12-25	10.28		1983-12-20	10.46	
1983-12-15	10.63		1983-12-10	11.75	
1983-12-05	11.77		1983-11-30	11.80	
1983-11-25	11.99		1983-11-20	12.14	
1983-11-15	12.22		1983-11-10	12.30	
1983-11-05	12.30		1983-10-31	12.32	
1983-10-25	12.29		1983-10-20	12.29	
1983-10-15	12.29		1983-10-10	12.31	
1983-10-05	12.24		1983-09-30	12.17	
1983-09-25	12.14		1983-09-20	12.25	
1983-09-15	12.15		1983-09-10	12.08	
1983-09-05	11. 9 8		1983-08-31	11.92	
1983-08-25	11.80		1983-08-20	11.76	
1983-08-15	11.74		1983-08-10	11.65	
1983-08-05	11.55		1983-07-31	11.45	
1983-07-25	11.27		1983-07-20	11.20	
1983-07-15	11.02		1983-07-10	10.85	
1983-07-05	10.63		1983-06-30	10.57	
1983-06-25	10.71		1983-06-20	10.56	
1983-06-15	10.37		1983-06-10	10.20	
1983-06-05	9.96		1983-05-31	9.73	
1983-05-25	9.38		1983-05-20	9.03	
1983-05-15			1983-05-10	8.42	
1983-05-05			1983-04-30	8.89	
1983-04-25	9.20		1983-04-20	9.73	
1983-04-15	10.84		1983-04-10	11.09	
1983-04-05	11.21		1983-03-31	11.20	
1983-03-25	11.23		1983-03-20	11.23	
1983-03-15	11.27		1983-03-10	11.48	
1983-03-05			1983-02-28	11.41	
1983-02-25			1983-02-20	11.31	
1983-02-15			1983-02-10	11.24	
1983-02-05			1983-01-31	11.79	
				-	

	r levels, conti Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealevel
1983-01-15	11.79		1983-01-10	11.79	
1983-01-05	11.78		1982-12-31	11.78	
1982-12-25	12.03		1982-12-20	11.99	
1982-12-15	12.07		1982-12-10	11.99	
1982-12-05	11. 9 4		1982-11-30	11.99	
1982-11-25	12.10		1982-11-20	12.14	
1982-11-15	12.12		1982-11-10	12.13	
1982-11-05	12.27		1982-10-31	12.34	
1982-10-25	12.29		1982-10-20	12.25	
1982-10-15	12.15		1982-10-10	12.15	
1982-10-05	12.10		1982-09-30	12.01	
1982-09-25	11.97		1982-09-20	11.84	
1982-09-15	11.78		1982-09-10	11.67	
1982-09-05	11.59		1982-08-31	11.59	
1982-08-05	11.05		1982-07-31	10.88	
1982-07-25	10.65		1982-07-20	10.54	
1982-07-15	10.33		1982-07-10	10.16	
1982-07-05	10.01		1982-06-30	10.35	
1982-06-25	10.65		1982-06-20	10.55	
1982-06-15	10.57		1982-06-10	10.59	
1982-06-05	10.77		1982-05-31	11.04	
1982-05-25	11.15		1982-05-20	11.02	
1982-05-15	10. 94		1982-05-10	10.81	
1982-05-05	10.65		1982-04-30	10.59	
1982-04-25	10.55		1982-04-20	10.58	
1982-04-15	10.69		1982-04-10	10.74	
1982-04-05	10.89		1982-03-31	10.94	
1982-03-25	10.98		1982-03-20	11.09	
1982-03-15	11.34		1982-03-10	11.44	
1982-03-05	11.47		1982-02-28	11.42	
1982-02-25	11.32		1982-02-20	11.20	
1982-02-15	11.19		1982-02-10	11.13	
1982-02-05	11.23		1982-01-31	11.60	
1982-01-25	11.45		1982-01-20	11.43	
1982-01-15	11.31		1982-01-10	11.27	
1982-01-05	11.41		1981-12-31	11.45	
1981-12-25	11.49		1981-12-20	11.50	
1981-12-15	11.47		1981-12-10	11.44	
1981-12-05	11.43		1981-11-30	11.44	
1981-11-25	11.43		1981-11-20	11.41	
1981-11-15	11.45		1981-11-10	11.45	
1981-11-05	11.45		1981-10-31	11.57	
1981-10-25	12.02		1981-10-20	12.02	
1981-10-15	12.01		1981-10-10	12.02	
1981-10-05	12.14		1981-09-30	12.25	
1981-09-25	12.26		1981-09-20	12.23	
1981-09-15	12.19		1981-09-10	12.19	
1981-09-05	12.26		1981-08-31	12.23	
1981-08-25	12.19		1981-08-20	12.10	
1981-08-15	11.95		1981-08-10	11.94	
1981-08-05	11.87		1981-07-31	11.84	
1981-07-25	11.74		1981-07-20	11.67	
1981-07-15	11.55		1981-07-10	11.49	
1981-07-05	11.36		1981-06-30	11.34	
1981-06-25	11.32		1981-06-20	11.37	

Feet to	Feet below		Feet to	Feet below	
Sealeve	Surface	Date	Sealevel	Surface	Date
	11.48	1981-06-10		11.51	1981-06-15
	11.35	1981-05-31		11.48	1981-06-05
	11.30	1981-05-20		11.30	1981-05-25
	11.35	1981-05-10		11.34	1981-05-15
	11.55	1981-04-30		11.45	1981-05-05
	11.59	1981-04-20		11.5 9	1981-04-25
	11.59	1981-04-10		11.59	1981-04-15
	11.52	1981-03-31		11.57	1981-04-05
	11.26	1981-03-20		11.39	1981-03-25
	11.12	1981-03-10		11.15	1981-03-15
	11.12	1981-02-28		11.03	1981-03-05
	11.51	1981-02-20		11.23	1981-02-25
	12.14	1981-02-10		11.70	1981-02-15
	12.28	1981-01-31		12.10	1981-02-05
	12.13	1981-01-20		12.21	1981-01-25
	12.02	1981-01-10		12.09	1981-01-15
	11.85	1980-12-31		11.91	1981-01-05
	11.76	1980-12-20	•	11.76	1980-12-25
	11.82	1980-12-10		11.75	1980-12-15
	11.90	1980-11-30		11.89	1980-12-05
	12.28	1980-11-20		12.13	1980-11-25
	12.25	1980-11-10		12.26	1980-11-15
	12.22	1980-10-31		12.22	1980-11-05
	12.38	1980-10-20		12.46	1980-10-25
	12.32	1980-10-10		12.36	1980-10-15
	12.26	1980-09-30		12.26	1980-10-05
	12.23	1980-09-20		12.26	1980-09-25
	12.09	1980-09-10		12.13	1980-09-15
	12.20	1980-08-31		12.16	1980-09-05
	12.09	1980-08-20		12.10	1980-08-25
	11.96	1980-08-10		12.05	1980-08-15
	11.86	1980-07-31		11.90	1980-08-05
	11.76	1980-07-20		11.80	1980-07-25
	11.58	1980-07-10		11.61	1980-07-15
	11.60	1980-06-30		11.60	1980-07-05
	11.47	1980-06-20		11.57	1980-06-25
	11.35	1980-06-10		11.47	1980-06-15
	11.14	1980-05-31		11.27	1980-06-05
	10.90	1980-05-20		11.04	1980-05-25
	10.65	1980-05-10		10.80	1980-05-15
	10.51	1980-04-30		10.46	1980-05-05
	10.51	1980-04-20		10.47	1980-04-25
	10.96	1980-04-10		10.65	1980-04-15
	11.41	1980-03-31		11.06	1980-04-05
	12.07	1980-03-20		11.76	1980-03-25
	12.27	1980-03-10		12.25	1980-03-15
	12.37	1980-02-29		12.36	1980-03-05
	12.34	1980-02-20		12.40	1980-02-25
	12.26	1980-02-10		12.29	1980-02-15
	11.10	19/9-12-10		11,00	1919-17-19
	12.21 12.06 11.95 11.87 11.86 11.76	1980-01-31 1980-01-20 1980-01-10 1979-12-31 1979-12-20 1979-12-10		12.24 12.10 12.05 11.88 11.88 11.85	1980-02-05 1980-01-25 1980-01-15 1980-01-05 1979-12-25 1979-12-15

Ground-water Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealeve
4070 40 00	44.00		44444	44 70	
	11.69		1979-11-30	11.73	
1979-11-25	12.05		1979-11-20	11.94	
1979-11-15	11.89		1979-11-10	11.86	
	11.93		1979-10-31	12.09	
1979-10-25	11.96		1979-10-20	11.91	
1979-10-15	11.87		1979-10-10	11.88	
1979-10-05	11.98		1979-09-30	12.09	
1979-09-25	12.07		1979-09-20	11.96	
1979-09-15	11.93		1979-09-10	11.92	
1979-09-05	12.13		1979-08-31	12.11	
1979-08-25	12.10		1979-08-20	11.98	
1979-08-15	11.92		1979-08-10	11.90	
1979-08-05	11.76		1979-07-31	11.60	
1979-07-25	11.53		1979-07-20	11.51	
1979-07-15	11.80		1979-07-10	11.63	
1979-07-05	11.59		1979-06-30	11.41	
1979-06-25	11.34		1979-06-20	11.20	
1979-06-15	11.03		1979-06-10	10.95	
1979-06-05	10.84		1979-05-31	10.89	
1979-05-25	11.06		1979-05-20	11.03	
1979-05-15	10.99		1979-05-10	10.83	
1979-05-05	10.77		1979-04-30	10.69	
1979-04-25	10.63		1979-04-20	10.51	
1979-04-15	10.44		1979-04-10	10.65	
1979-04-05	10.61		1979-03-31	10.55	
1979-03-25	10.36		1979-03-20	10.31	
1979-03-15	10.21		1979-03-10	10.37	
1979-03-05	10.80		1979-02-28	11.05	
1979-02-25	11.08		1979-02-20	11.02	
1979-02-15	10.97		1979-02-10	10.78	
1979-02-05	10.56		1979-01-31	10.56	
1979-01-25	10.98		1979-01-20	11.30	
1979-01-15	11.30		1979-01-10	11.53	
1979-01-05	11.63		1978-12-31	12.34	
1978-12-25	12.23		1978-12-20	12.32	
1978-12-15	12.32		1978-12-10	12.42	
1978-12-05	12.41		1978-11-30	12.45	
1978-11-25	12.35		1978-11-20	12.36	
1978-11-15	12.29		1978-11-10	12.25	
1978-11-05	12.21		1978-10-31	12.21	
1978-10-25	12.25		1978-10-20	12.22	
1978-10-15	12.26		1978-10-10	12.27	
1978-10-05	12.35		1978-09-30	12.29	
1978-09-25	12.22		1978-09-20	12.20	
1978-09-15	12.09		1978-09-10	11.91	
1978-09-05	11.81		1978-08-31	11.86	
1978-08-25	11.71	0	1978-08-20	11.55	
1978-08-15	11.52		1978-08-10	11.52	
1978-08-05	12.12		1978-07-31	12.08	
1978-07-25	11.95		1978-07-20	11.87	
1978-07-15	11.74		1978-07-10	11.57	
1978-07-05	11.55		1978-06-30	11.50	
1978-06-25	11.40		1978-06-20	11.29	
1978-06-15	11.29		1978-06-10	11.29	
1978-06-05	11.26		1978-05-31	11.12	

	Feet below	linued. Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealeve
1978-05-25	10.94	***********	1978-05-20	10.89	
1978-05-15	10.70		1978-05-10	10.47	
1978-05-05	10.34		1978-04-30	10.21	
1978-04-25	9.95		1978-04-20	9.74	
1978-04-15	9.67		1978-04-10	9.57	
1978-04-05	9.58		1978-03-31	9.66	
1978-03-25	9.98		1978-03-20	10.36	
1978-03-15	10.75		1978-03-10	10.44	
1978-03-05	10.44	•	1978-02-28	10.44	
1978-02-25	10.44		1978-02-20	10.15	
1978-02-15	10.15		1978-02-10	9.56	
1978-02-05	9.56		1978-01-31	9.56	
1978-01-25	10.09		1978-01-20	9.93	
1978-01-15	9.69		1978-01-10	9.69	
1978-01-05	9.93		1977-12-31	9.66	
1977-12-25	9.55		1977-12-20	9.68	
1977-12-15	10.07		1977-12-10	10.10	
1977-12-05	9.97		1977-11-30	10.23	
1977-11-25	10.07		1977-11-20	9.91	
1977-11-15	9.69		1977-11-10	9.96	
1977-11-05	9.95		1977-10-31	9.70	
1977-10-25	9.54		1977-10-20	9.70	
1977-10-15	10.47		1977-10-10	10.47	
1977-10-05	10.65		1977-09-30	10.74	
1977-09-25	11.15		1977-09-20	11.69	
1977-09-15	12.30		1977-09-10	12.28	
1977-09-05	12.26		1977-08-31	12.26	
1977-08-25	12.23		1977-08-20	12.20	
1977-08-15	12.11		1977-08-10	12.09	
1977-08-05	12.23		1977-07-31	12.20	
1977-07-25	12.10		1977-07-20	12.06	
1977-07-15	11.92		1977-07-10	11.84	
1977-07-05	11.83		1977-06-30	11.70	
1977-06-25	11.54		1977-06-20	11.45	
1977-06-15	11.29		1977-06-10	11.22	
1977-06-05	11.13		1977-05-31	10.95	
1977-05-25	10.95		1977-05-20	10.78	
1977-05-15	10.68		1977-05-10	10.55	
1977-05-05	10.61		1977-04-30	10.59	
1977-04-25	10.67		1977-04-20	10.49	
1977-04-15	10.40		1977-04-10	10.24	
1977-04-05	10.20		1977-03-31	10.36	
1977-03-25	10.67		1977-03-20	11.12	
1977-03-15	11.45		1977-03-10	11.68	
1977-03-05			1977-02-28	12.00	
1977-02-25			1977-02-20	12.40	
1977-02-15			1977-02-10	12.42	
1977-02-05			1977-01-31	11.91	
1977-01-15			1977-01-10	11.90	
1977-01-05			1976-12-31	11.86	
1976-12-25			1976-12-20	11.63	
1976-12-15			1976-12-10	11.32	
1976-12-05		-	1976-11-30	11.26	
1976-11-25	11.15		1976-11-10	10.84	
1976-11-05	10.84		1976-10-31	10.86	

	eet below	Feet to		Feet below	Feet to
Date S	Surface	Sealevel	Date	Surface	Sealeve
1976-10-25 1	1.02		1976-10-20	11.24	
1976-10-15 1	1.28		1976-10-10	11.46	
1976-10-05 1	1.97		1976-09-30	11.83	
1976-09-25 1	1.79		1976-09-20	11.68	
1976-09-15 1	1.70		1976-09-10	11.67	
1976-09-05 1	1.49		1976-08-31	11.42	
1976-08-25 1	1.28		1976-08-20	11.21	
1976-08-15	1.23		1976-08-10	11.41	
1976-08-05	1.64		1976-07-31	11.69	
1976-07-25	1.66		1976-07-20	11.50	
1976-07-15	1.43		1976-07-10	11.42	
1976-07-05	1.41		1976-06-30	11.59	
1976-06-25	11.65		1976-06-20	11.65	
1976-06-15	11.53		1976-06-10	11.47	
1976-06-05	11.49		1976-05-31	11.38	
	11.25		1976-05-20	11.25	
1976-05-15	11.19		1976-05-10	11.15	
1976-05-05	11.12		1976-04-30	11.08	
1976-04-25	11.08		1976-04-20	11.01	
1976-04-15	10.86		1976-04-10	10.68	
1976-04-05	10.66		1976-03-31	10.67	
1976-03-25	10.44		1976-03-20	10.27	
1976-03-15	10.08		1976-03-10	10.05	
1976-03-05	10.18		1976-02-29	10.33	
1976-02-25	10.39		1976-02-20	10.5 9	
1976-02-15	11.06		1976-02-10	11.16	
1976-02-05	11.15		1976-01-31	11.15	
1976-01-25	11.59		1976-01 - 20	11.58	
1976-01-15	11.58		1975-11-20	10.25	
1975-11-15	10.13		1975-11-10	9.76	
1975-11-05	9.66		1975-10-31	9.49	
1975-10-25	9.47		1975-10-20	9.67	
1975-10-15	10.13		1975-10-10	9.93	
1975-10-05	9.86		1975-09-30	10.04	
1975-0 9 -25	10.85		1975-09-20	11.19	
1975-09-15	11.14		1975-09-10	11.13	
1975-09-05	11.08		1975-08-31	11.14	
1975-08-25	11.19		1975-08-20	11.19	
1975-08-15	11.25		1975-08-10	11.13	
1975-08-05	11.04		1975-07-31	10.95	
1975-07-25	11.05		1975-07-20	11.13	
1975-07-15	11.12		1975-07-10	11.02	
1975-07-05	10.91		1975-06-30	10.88	
	10.74		1975-06-20	10.67	
1 97 5-06-15	10.53		1975-06-10	10.52	
1975-06-05	10.53		1975-05-31	10.37	
1975-05-25	10.30		1975-05-20	10.15	
1975-05-15	10.14		1975-05-10	10.23	
1975-05-05	10.39		1975-04-30	10.36	
1975-04-25	10.31		1975-04-20	10.13	
1975-04-15	10.06		1975-04-10	9.98	
1975-04-05	9.99		1975-03-31	10.05	
1975-03-25	10.06		1975-03-20	10.13	
1975-03-15	10.10		1975-03-10	9.95	
1975-03-05	10.04		1975-02-28	10.06	

	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealevel
1975-02-25	10.25		1975-02-20	10.71	
1975-02-15	10.74		1975-02-10	10.64	
1975-02-05	10.52		1975-01-31	10.61	
1975-01-25	10.66		1975-01-20	10.66	
1975-01-15	10.69		1975-01-10	10.92	
1975-01-05	10.94		1974-12-31	10.91	
1974-12-25	10.90		1974-12-20	10.92	
1974-12-15	11.06		1974-12-10	11.11	
1974-12-05	11.26		1974-11-30	11.26	
1974-11-25	11.27		1974-11-20	11.29	
1974-11-15	11.47		1974-11-10	11.71	
1974-11-05	11.74		1974-10-31	11.73	
1974-10-25	11.64		1974-10-20	11.62	
1974-10-15	11.61		1974-10-10	11.49	
1974-10-05	11.47		1974-09-30	11.28	
1974-09-25	11.28		1974-09-20	11.28	
1974-09-15	11.12		1974-09-10	11.09	
1974-09-05	11.10		1974-08-31	11.28	
1974-08-25	11.30		1974-08-20	11.27	
1974-08-15	11.25		1974-08-10	11.13	
1974-08-05	11.13		1974-07-31	11.07	
1974-07-25	11.06		1974-07-20	11.05	
1974-07-15	11.05		1974-07-10	10. 94	
1974-07-05	10.91		1974-06-30	10.91	
1974-06-25	10.87		1974-06-20	10.73	
1974-06-15			1974-06-10	10.61	
1974-06-05			1974-05-31	10.33	
1974-05-25	10.27		1974-05-20	10.18	
1974-05-15	10.07		1974-05-10	9.98	
1974-05-05	9.79		1974-04-30	9.70	
1974-04-25	9.59		1974-04-20	9.52	
1974-04-15	9.52		1974-04-10	9.72	
1974-04-05	9.77		1974-03-31	10.10	
1974-03-25	10.18		1974-03-20	10.38	
1974-01-31	12.78		1974-01-25	12.79	
1974-01-20	12.80		1974-01-15	12.79	
1974-01-10	12.79		1974-01-05	12.79	
1973-12-31	12.79	•	1973-12-25	12.79	
1973-12-20	12.74		1973-12-15	12.79	
1973-12-10	12.79		1973-12-05	12.79	
1973-11-30	12.79		1973-11-25	12.79	
1973-11-20			1973-11-15	12.77	
1973-11-10			1973-11-05	12.76	
1973-10-31			1973-10-25		
1973-10-20			1973-10-15	12.53	
1973-10-10			1973-10-05	12.40	
1973-09-30			1973-09-25		
1973-09-20			1973-09-15	12.19	
1973-09-10			1973-09-05		
1973-08-31			1973-08-25		
1973-08-20			1973-08-15	_	
1973-08-10			1973-08-05		
1973-07-31			1973-07-25		
			1973-07-15		
1973-07-20					

Ground-water levels, continued.								
Date	Feet below Surface	Feet to Sealevel	Dat	e	Feet below Surface	Feet to Sealevel		
1973-06-30	11.30		197	3-06-25	11.05			
1973-06-20	10.99			3-06-15	10.99			
1973-06-10	10.99			3-06-05	10.99			
1973-05-31	10.99		197	3-05-25	10.99			
1973-05-05	11.26		197	3-04-30	11.26			
1973-04-25	11.26		197	3-04-20	11.26			
1973-04-15	11.26		197	3-04-10	11.26			
1973-04-05	11.26		197	3-03-31	11.29			
1973-03-25	11.30		197	3-03-20	11.30			
1973-03-15	11.30		197	3-03-10	11.30			
1973-03-05	11.20		197	3-02-28	11.09			
1973-02-25	10.86		197	73-02-20	10.71			
1973-02-15	10.71		197	73-02-10	10.71			
1973-02-05	10.71		197	3-01-31	10.42			
1973-01-25	10.42		197	73-01-20	10.03			
1973-01-15	9.84		197	/3-01-10	9.80			
1973-01-05	9.80		197	72-12-31	9.53			
1972-12-25	9.47		197	72-12-20	9.63			
1972-12-15	9.53		197	72-12-10	9.67			
1972-12-05	10.02		197	72-11-30	10.02			
1972-11-25	10.17		197	72-11-20	10.22			
1972-11-15	10.55		197	72-11-10	10.91			
1972-11-05	11.68		197	72-10-31	11.83			
1972-10-25	11.80		197	72-10-20	11.76			
1972-10-15	11.62		197	72-10-10	11.63			
1972-10-05	11.65		197	72-09-30	11.54			
1972-09-25	11.48		197	72-09-20	11.45			
1972-09-15	11.40		197	72-09-10	11.24			
1972-09-05	11.11		197	72-08-31	10.83			
1 9 72-08-25	10.63		197	72-08-20	10.42			
1972-08-15	10.34		197	72-08-10	10.09			
1972-08-05	10.13			72-07-31	10.23			
1972-07-25	9.92			72-07-20	9.77			
1972-07-15	9.50			72-07-10	9.20			
1972-07-05				72-06-30	8.93			
1972-06-25				72-06-20	10.43			
1972-06-15				72-06-10	10,22			
1972-06-05				72-05-31	10.11			
1972-05-25				72-05-20	9.74			
1972-05-15				72-05-10	9.94			
1972-05-05				72-04-30	10.28			
1972-04-15				72-04-10	10.53			
19/2-04-05				72-03-31	10.34			
1972-03-25				72-03-20	10,61 11,10			
1972-03-15				72-03-10				
1972-03-05				72-02-29	11.81			
1972-02-25				72-02-20	11.59 11.87			
1972-02-15				72-02-10	11.87			
1972-02-05				72-01-31				
1972-01-25				72-01-20	11.66			
1972-01-15				72-01-10	11.66			
1972-01-05				71-12-31	11.83			
1971-12-25				71-12-20	11.91			
1971-12-15				71-12-10				
1971-12-05	5 12.40		19	71-11-30	12.40			

Ground-water levels, continued. Feet below Feet to Feet below Feet to								
Date	Feet below Surface	Feet to Sealevel		Date	Surface	Sealevel		
1971-11-25	12.53			1971-11-20	12.51			
1971-11-05	12.66			1971-10-31	12.66			
1971-10-25	12.64			1971-10-20	12.58			
1971-10-15	12.51			1971-10-05	12.50			
1971-09-30	12.47			1971-09-25	12.41			
1971-09-20	12.33			1971-09-15	12.22			
1971-09-10	12.10			1971-09-05	12.17			
1971-08-31	12.16			1971-08-25	12.27			
1971-08-20	12.23			1971-08- 15	12.20			
1971-08-10	12.17			1971-08-05	12.09			
1971-07-31	12.12			1971-07-25	12.16			
1971-07-20	12.03			1971-07-15	11.94			
1971-07-10	11.99			1971-07-05	11.96			
1971-06-30	11.92			1971-06-25	11.87			
1971-06-20	11.76			1971-06-15	11.65			
1971-06-10	11.52			1971-06-05	11.39			
1971-05-31	11.24			1971-05-25	11.11			
1971-05-20	11.08			1971-05-15	11.09			
1971-05-10	11.06			1971-05-05	10.97 10.87			
1971-04-30	10.95			1971-04-25	10.73			
1971-04-20	10.81			1971-04-15 1971-04-05	10.68			
1971-04-10	10.72			1971-04-05	10.36			
1971-03-31 1971-03-20	10.50 10.28			1971-03-25	10.46			
1971-03-20	10.25			1971-03-15	10.69			
1971-02-28	10.89			1971-03-05	11.17			
1971-02-20	11.50			1971-02-25	11.59			
1971-02-10				1971-02-05	12.01			
1971-01-20				1971-01-15	11.86			
1971-01-10	11.85			1971-01-05	11.95			
1970-12-20				1970-12-15	12.13			
1970-12-10				1970-12-05	12.04			
1970-11-25	12.11			1970-11-20	12.10			
1970-11-15	12.14		•	1970-11-10	12.17			
1970-11-05	12.04		4	1970-10-31	12.04			
1970-10-25	11.94			1970-10-20	11.96			
1970-10-15	11. 9 2			1970-10-10	11.89			
1970-10-05	11.82		•	1970-09-30	11.74			
1970-09-25	11.73			1970-09-20	11.66			
1970-09-15				1970-09-10	11.42			
1970-09-05				1970-08-31	11.44			
1970-08-25				1970-08-20	11.52			
1970-07-31				1970-07-25	11.24			
1970-07-20				1970-07-15	11.40			
1970-07-10				1970-07-05	11.48			
1970-06-30				1970-06-25 1970-06-15	11.65			
1970-06-20					11.49 11.24			
1970-06-10 1970-05-31				1970-06-05 1970-05-25	11.24			
1970-05-31				1970-05-25	10.89			
1970-05-20				1970-05-15	10.55			
1970-05-10				1970-03-05	10.33			
1970-04-30				1970-04-25	11.10			
1969-12-20				1969-12-15	11.76			
1969-12-20				1969-11-30	11.97			
1000-12-10				.555 11 50				

Ground-water levels, continued.							
. .	Feet below	Feet to			_	Feet below	Feet to
Date	Surface	Sealevel			Date	Surface	Sealevel
1969-11-20	12.19				1969-11-15	12.18	
1969-11-10	12.25				1969-11-05	12.48	
1969-10-29	12.57				1969-10-20	12.57	
1969-10-15	12.60				1969-10-10	12.55	
1969-10-04	12.53				1969-09-25	12.48	
1969-09-20	12.40				1969-09-15	12.33	
1969-09-10	12.24				1969-09-05	12.15	
1969-08-31	12.10				1969-08-25	12.04	
1969-08-20	11.97				1969-08-05	11.95	
1969-07-31	11.93				1969-07-20	11.82	
1969-07-15	12.05				1969-06-30	11.84	
1969-06-25	11.77				1969-06-20	11.73	
1969-06-15	11.73				1969-06-10	11.74	
1969-06-05	11.70				1969-05-31	11.60	
1969-05-20	11.44				1969-05-15	11.47	
1969-05-10	11.22				1969-04-15	11.03	
1969-04-10	11.04				1969-04-05	11.35	
1969-03-25	11.59				1969-03-20	11.68	
1969-03-15	11.64				1969-03-10	11.52	
1969-03-05	11.49				1969-02-28	11.45	
1969-02-25	11.37				1969-02-20	11.29	
1969-02-04	11.1 6				1969-01-31	11.29	
1969-01-24	11.45				1969-01-15	11.43	
1968-12-31	11.07				1968-12-24	11.42	
1968-12-20	11.40				1968-12-08	11.33	
1968-12-05	11.22				1968-11-30	11.35	
1968-11-19	11.43				1968-11-15	11.78	
1968-11-10	11.87				1968-11-05	12.20	
1968-10-31	12.18				1968-10-25	12.09	
1968-10-20	12.14				1968-10-15	12.12	
1968-10-10	12.03				1968-10-05	11.95	
1968-09-30	11.86				1968-09-25	11.70	
1968-09-20	11.60				1968-09-10	12.02	
1968-09-05	12.12				1968-08-31	12.03	
1968-08-25	11.88				1968-08-20	11.79	
1968-08-15	11.70				1968-08-10	11.56	
1968-08-05	11.47				1968-07-31	11.35	
1968-07-25	11.16				1968-07-20	11.03	
1968-07-18	11.01				1968-07-15	10.92	
1968-07-10	10.75				1968-07-05	10.62	
1968-06-30	10.61				1968-06-25	10.84	
1968-06-20	10.78				1968-06 - 10	11.05	
1968-06-05	11.08				1968-05-30	11.07	
1968-05-24	11.23				1968-05-15	11.39	
1968-05-10	11.65				1968-04-25	11.39	
1967-10-05	11.69			٠	1967-05-01	10.45	
1966-10-19	11.99				1966-05-10	10.55	
1966-04 - 25					1955-07-19	11.19	
1954-08-04	11.70				1953-12-06	11.96	
1953-09-04	11.90				1953-05-04	10.26	
1952-10-23					1952-05-21	10.38	
1951-08-16					1950-04-26	9.56	
1949-12-12					1949-04-21	10.92	
1948-07-09	11.00				1947-10-29	12.50	
1947-01-30	12.17				1946-10-13	12.83	

Map ID Direction Distance EDR ID Number_ Elevation Database H42 SW **FED USGS** USGS0749758 1/2 - 1 Mile Lower USGS 420559075545401 Agency: Site ID: Site Name: BM 116 Dec. Latitude: 42.0998 Dec. Longitude: -75.91464 Coord Sys: NAD83 State: NY County: **Broome County** Altitude: 848.00 02050102 Hydrologic code: Topographic: Alluvial or marine terrace Ground-water other than Spring Site Type: Const Date: 19410101 Not Reported Inven Date: Well Type: Single well, other than collector or Ranney type Primary Aquiter: **341DVNNU** Not Reported Aquifer type: Well depth: 725 Hole depth: Not Reported Not Reported Source: Not Reported Project no: Ground-water levels, Number of Measurements: 1 Feet below Feet to Sealevel Date Surface 1945-07-01 20.00 143 SSW 1/2 - 1 Mile Higher USG\$0749751 **FED USGS** Agency: USGS Site ID: 420551075543901 Site Name: BM 101 Dec. Latitude: 42.09758 Dec. Longitude: -75.91047 NAD83 Coord Sys: State: NY **Broome County** County: Altitude: 855.00 Hydrologic code: 02050101 Topographic: Alluvial or marine terrace Ground-water other than Spring Site Type: 19680101 Not Reported Const Date: Inven Date: Weil Type: Single well, other than collector or Ranney type Primary Aquifer: 112QTSH Not Reported Aquifer type: Well depth: 70.0 Not Reported Not Reported Hole depth: Source: Project no: Not Reported

Ground-water levels, Number of Measurements: 1 Feet below

Feet to

Date

Surface

Sealevel

1968-11-01 29.00

WSW 1/2 - 1 Mile

FED USGS

USG\$0749802

Agency:

USGS

Site ID:

420617075551801

Site Name: Dec. Latitude: BM 659 42.1048

Dec. Longitude: Coord Sys:

-75.92131 NAD83

State: County: NY **Broome County**

Altitude: Hydrologic code: Topographic:

852.80 Not Reported Not Reported

Site Type:

Ground-water other than Spring

Const Date:

Not Reported Inven Date: Not Reported

Well Type:

Single well, other than collector or Ranney type

Primary Aquifer:

Not Reported Not Reported

Aquifer type: Well depth:

Hole depth:

43.0 Not Reported

46.0

Not Reported

Project no:

Ground-water levels, Number of Measurements: 2

Feet below Date Surface

Feet to Sealevel

Feet below Surface Date

Feet to Sealevel

420550075544001

1995-05-02 31.09 1994-08-23 33.88

SSW 1/2 - 1 Mile Lower

Site ID:

Source:

USGS0749748 FED USGS

Agency: Site Name: USGS BM 725 42.0973

Dec. Latitude: -75.91075 Dec. Longitude: Coord Sys: NAD83

State: NY **Broome County** County: Altitude: Not Reported Hydrologic code: 02050103 Topographic: Not Reported

Site Type:

Ground-water other than Spring

Inven Date:

Not Reported

Const Date: Well Type:

Not Reported Single well, other than collector or Ranney type

Primary Aquifer: Aquifer type:

Not Reported Not Reported

Well depth:

Not Reported

Hole depth: Project no:

Not Reported Not Reported Source:

Not Reported

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation			Database	EDR ID Number
J46 WSW 1/2 - 1 Mile Lower			FED USGS	USGS0749799
Agency: Site Name: Dec. Latitude: Dec. Longitude: Coord Sys: State: County: Altitude: Hydrologic code: Topographic:	USGS BM 147 42.10452 -75.92158 NAD83 NY Broome County 855.00 02050102 Alluvial or marine terrace		420616075551901	
Site Type: Const Date: Well Type: Primary Aquifer: Aquifer type: Well depth: Hole depth:	Ground-water other than 19390101 Single well, other than co 110QRNR Not Reported 110 Not Reported Not Reported	Inven Date:	Not Reported Not Reported	

Date

1966-01-01 35.00

Surface

Sealevel

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

Zip	Num Sites	< 4 Pci/L	>= 4 Pci/L	>= 20 Pci/L	Avg > 4 Pci/L	Max Pci/L
						
13901	319	101 (31.7%)	180 (56.4%)	38 (11.9%)	10.66	106.3
13901	1	0 (0%)	1 (100%)	0 (0%)	13.80	13.8
13901	2	2 (100%)	0 (0%)	0 (0%)	0.80	0.9
13901	1	0 (0%)	1 (100%)	0 (0%)	4.80	4.8
13901	1	0 (0%)	0 (0%)	1 (100%)	28.50	28.5
13901	1	0 (0%)	1 (100%)	0 (0%)	11.80	11.8

Federal EPA Radon Zone for BROOME County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BROOME COUNTY, NY

Number of sites tested: 162

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.300 pCi/L	85%	14%	1%
Basement	2.240 pCi/L	72%	26%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002, 7.5-Minute DEMs correspond to the USGS

1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

New York State Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

Coverages are based on official New York State Freshwater Wetlands Maps as described in

Article 24-0301 of the Environmental Conservation Law,

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

New York Facility and Manifest Data

Source: NYSDEC Telephone: 518-457-6585

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through

transporters to a tsd facility.

RADON

State Database: NY Radon

Source: Department of Health Telephone: 518-402-7556 Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

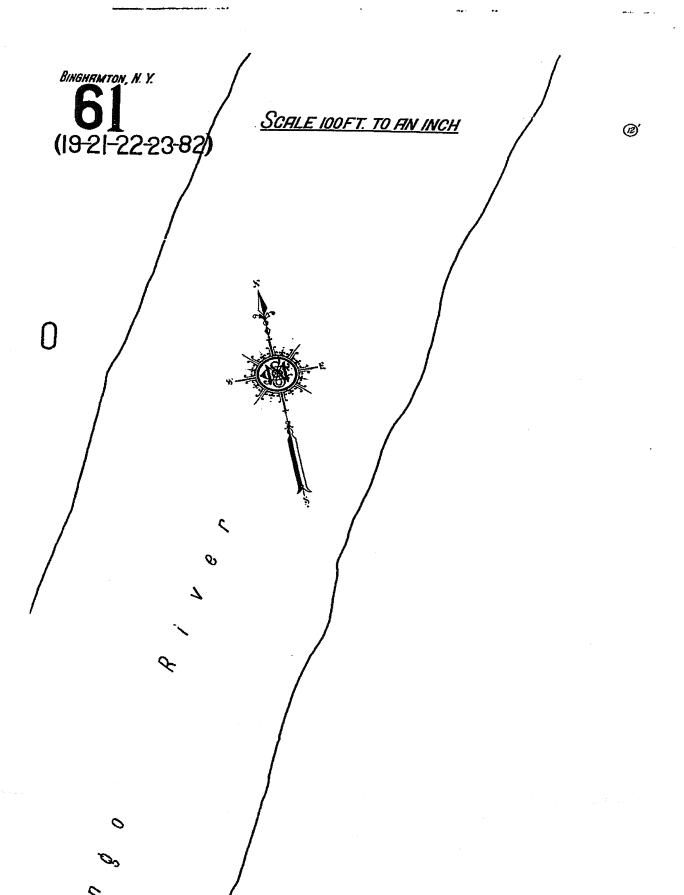
OTHER

Airport Landing Facilities: Private and public use landing facilities

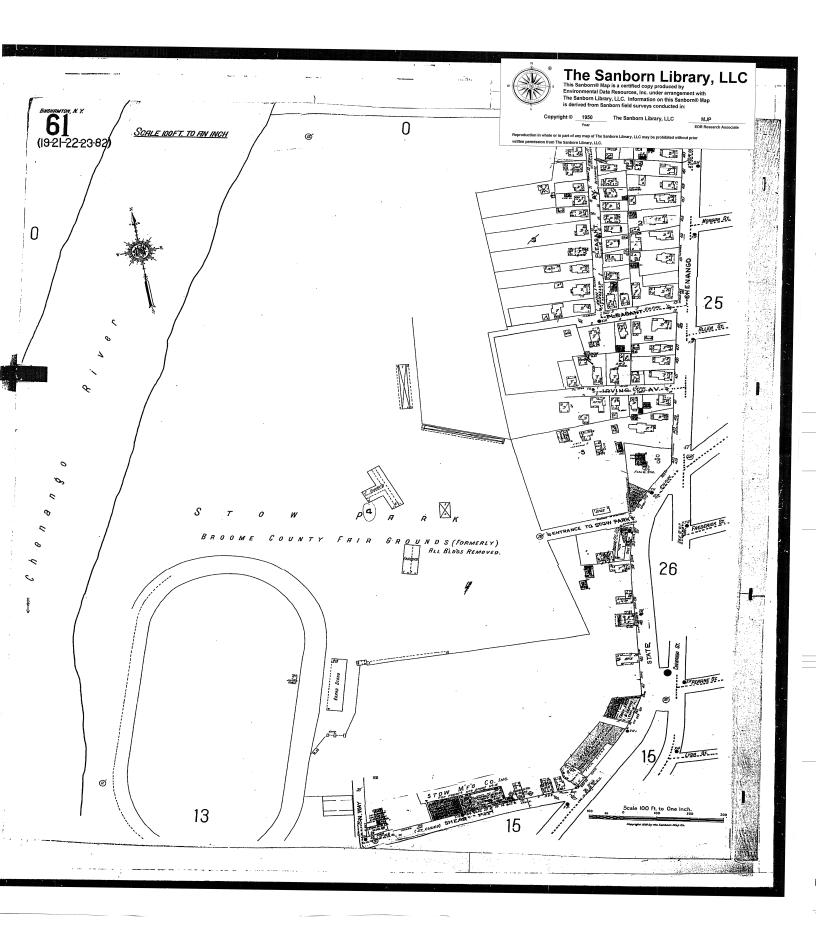
Source: Federal Aviation Administration, 800-457-6656

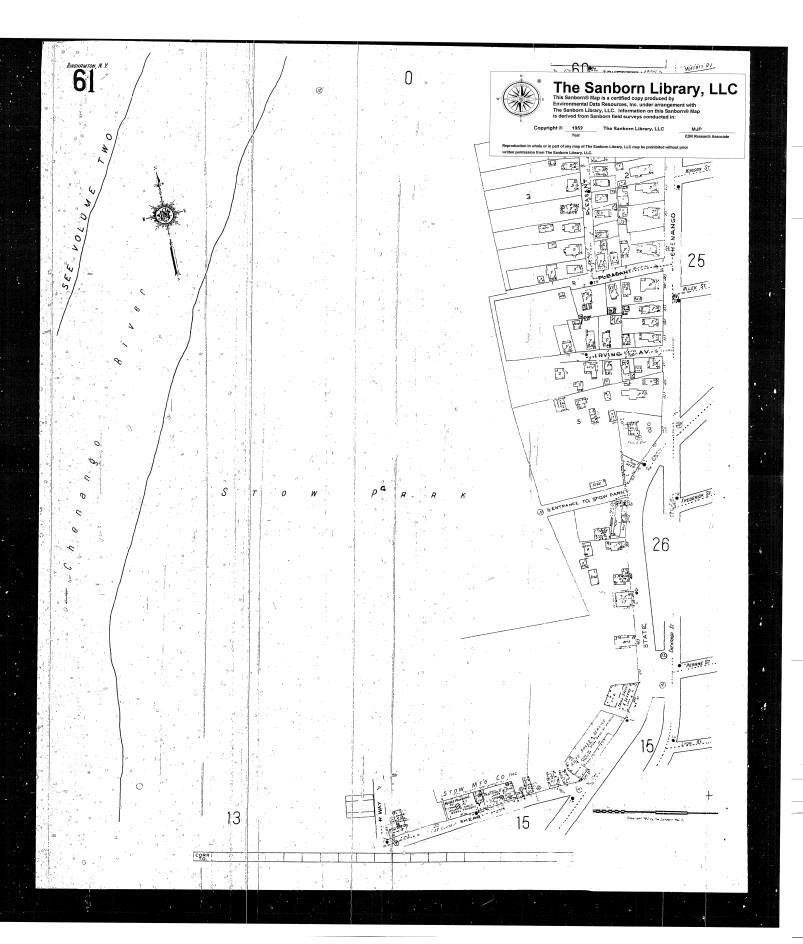
Epicenters: World earthquake epicenters, Richter 5 or greater

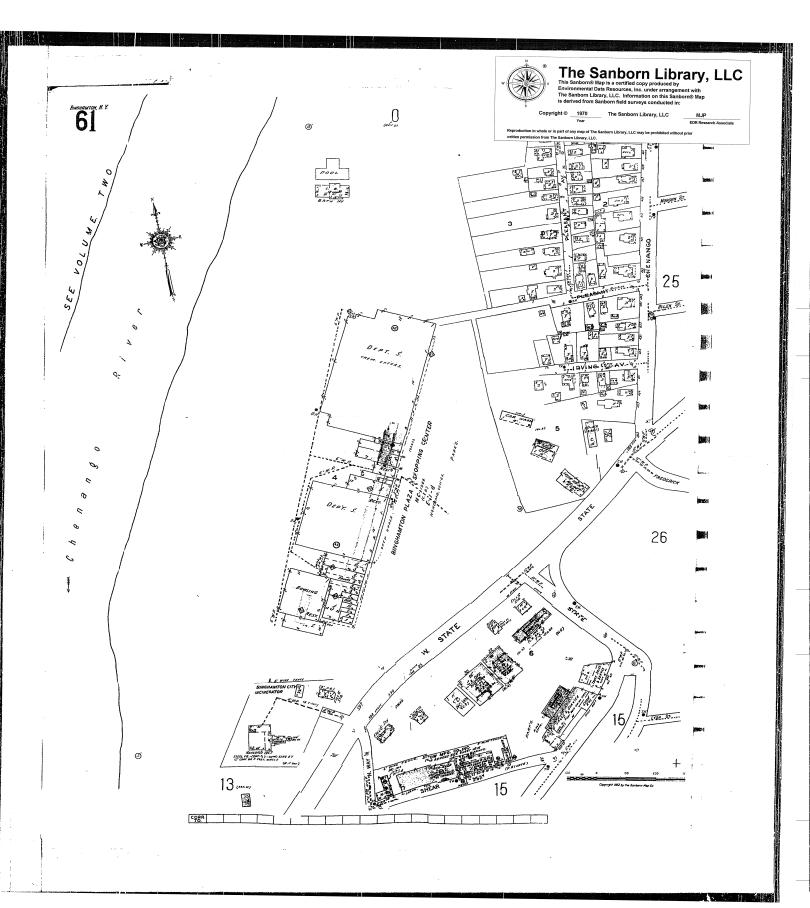
Source: Department of Commerce, National Oceanic and Atmospheric Administration

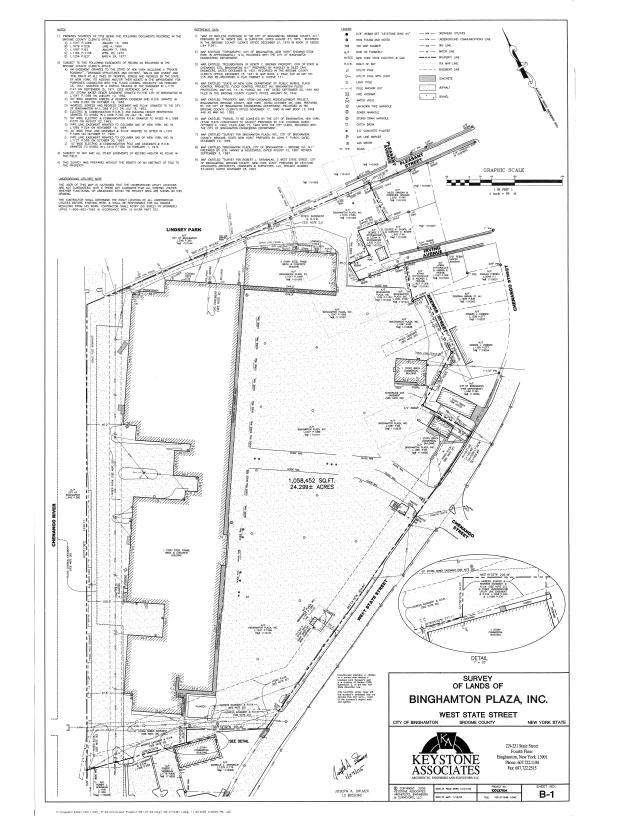


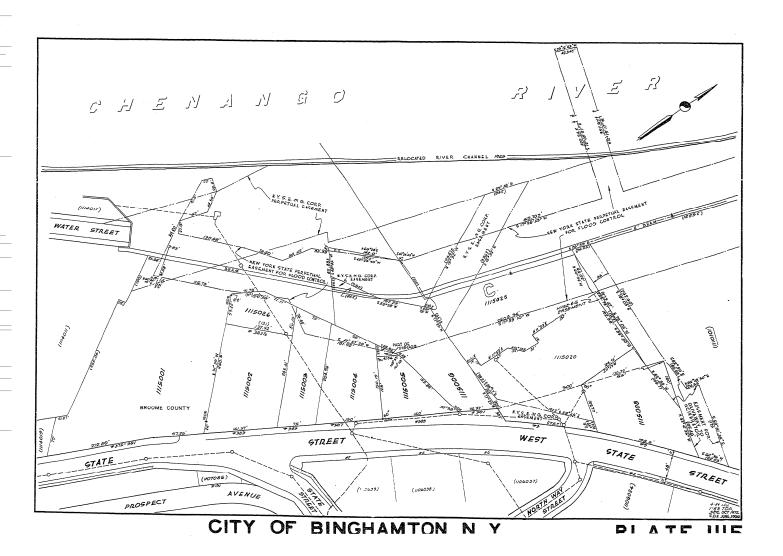
EXPLES

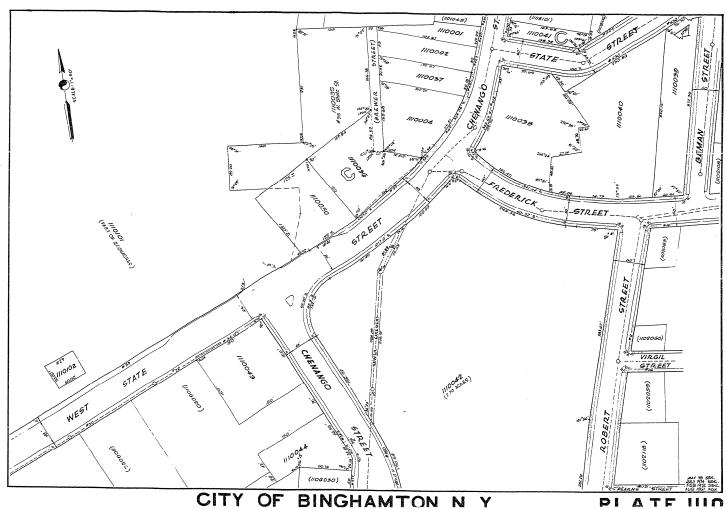




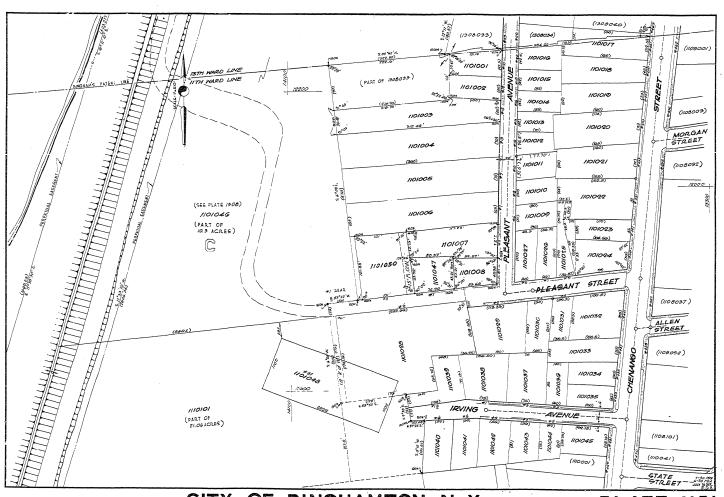








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DRAFT. CONFIDENTIAL.
ATTORNEY-CLIENT COMMUNICATION

30 March 2005

Phil Bousquet, Esq. Green & Seifter, PLLC One Lincoln Center Syracuse, NY 13202

Re:

Limited Site Investigation Report

Binghamton Plaza

33 West State Street, Binghamton, New York

Delta Project No. 0502010P

Dear Mr. Bousquet:

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the above-referenced property to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. The Limited Site Investigation focused on a number of areas of concern (AOCs) identified during Delta's file review and due diligence, which was completed prior to commencing this site investigation. These AOCs pertained to the historic use of the site as an industrial landfill, as well as a number of former tenants in the plaza, including a dry cleaner, auto parts store and paint store. In addition, AOCs were also identified based on neighboring properties including a former trash incinerator and gasoline station due south of the property, a gasoline station and dry cleaner east of the property (i.e., on the opposite side of West State Street) and a closed gasoline station and automobile repair facility along the northeastern property boundary. This report describes the tasks performed, summarizes the analytical results of sampling activities, and provides a summary of findings.

SCOPE OF WORK

Soil Boring Installations

Ten soil borings (GSB-1 to GSB-10) were installed at the site to evaluate subsurface soil conditions. Soil borings were installed to a maximum depth of 24 feet below grade using a direct-push drill rig. Soil samples were collected continuously from grade to completion at each boring location. Delta's on-site geologist visually inspected and screened all soil samples in the field with a Photoionization Detector (PID) to assess the potential presence of volatile organic compounds (VOCs). A summary and brief



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description of the purpose of each boring is provided in the table below; soil boring locations are depicted on Figure 1.

Soil Boring ID	Total Depth of Boring (ft)	Purpose
GSB-1	20	Adjacent to the former incinerator south of the site.
GSB-2	20	Adjacent to a former gasoline station south of the site.
GSB-3	24	Downgradient of a dry cleaner and gasoline station east and southeast of the site.
GSB-4	11.8*	Central portion of the site.
GSB-5	15	Downgradient of a suspected former onsite dry cleaner location.
GSB-6	20	Adjacent to transformers and Lindsey Park; and on the downgradient side of the site.
GSB-7	17*	Near transformers and Lindsey Park; and downgradient of former onsite auto parts store.
GSB-8	8.2*	Downgradient of suspect offsite features.
GSB-9	20	Downgradient of former gasoline station and auto repair facility east of the site (Howard property).
GSB-10	24	North-central portion of the site downgradient of the Howard property.

^{*} Refusal encountered

Soil descriptions, visual observations, odors, PID readings and other pertinent information for each boring are presented in the Soil Boring Logs (Attachment 1).

Based on field screening data, visual observations, odors and soil boring location, Delta selected six soil samples for laboratory analysis: GSB-1 (12-16'), GSB-3 (16-20'), GSB-6 (4-8'), GSB-7 (12-16'), GSB-9 (4-8') and GSB-10 (16-20'). These soil samples were collected from specific depth intervals in these borings which generally exhibited the greatest impacts (i.e., presence of fill material, elevated PID readings, staining, odors, etc.). The six soil samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals. Soil samples were analyzed by Severn Trent Laboratories, Inc. (Severn Trent), located in Buffalo, New York. Severn Trent is an NYSDOH ELAP certified analytical laboratory.

Upon completion of each soil boring, the borehole was either backfilled or used to construct a temporary groundwater monitoring well. The temporary wells were installed for groundwater sampling purposes as described below.

Temporary Monitoring Well Installations

Six temporary monitoring wells were installed during the Limited Site Investigation to evaluate groundwater quality beneath the site. These wells were installed to a maximum of 24 feet below grade in borings GSB-1, GSB-3, GSB-5, GSB-6, GSB-7 and GSB-9. Each temporary well was constructed of approximately ten feet of one-inch diameter PVC well screen and up to 14 feet of one-inch diameter PVC riser. The well was lowered into the borehole to the desired depth then a silica sand pack was added until the sand was above the top of the screened interval. A bentonite chip seal was added above the sand to prevent any surface water from infiltrating into the well.

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In general, the depth to groundwater and saturated thickness encountered in each of the soil borings drilled during this Limited Site Investigation was not consistent across the site. As indicated in the table below, the total depths of the wells ranged from approximately 14.83 to 23.40 feet below ground surface and the depths to water in each well ranged from approximately 10.25 to 21.39 feet below grade.

Well ID	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Depth to Water (ft)	15.57	21.39	10.25	16.81	17.18	19.29
Total Depth (ft)	19.20	23.40	14.83	19.82	20.07	19.81

The inconsistent depths to water observed during the Limited Site Investigation prevented developing a reliable groundwater flow direction map. As such, the temporary wells were not surveyed during the course of this investigation. In addition, as indicated in the table above, less than five feet of water was present in each of the wells. Based on the small amount of water in each well and slow recharge, only minimal well development was performed to allow for as much volume as possible for groundwater sampling.

Following sampling, each temporary well was abandoned by removing the well screen and casing and filling the borehole to grade with cement grout.

Groundwater Sampling

Groundwater samples were collected from the temporary wells on 11 March 2005 using small diameter, disposable polyethylene bailers. Prior to sampling, the depth to groundwater and total depth of each well were measured, as summarized in the table above, with an electronic water level indicator. As previously stated, well development and/or purging was not performed due to the small amount of water present in the wells and slow recharge. Therefore, water samples were generally turbid and contained sediment. In general, groundwater samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals; however, some of the wells contained insufficient volume for all of the analyses. The specific parameters analyzed for each of the groundwater samples is presented below.

- GSB-1, GSB-5 and GSB-7: VOCs, PAHs, PCBs and metals;
- GSB-3 and GSB-6: VOCs and PAHs; and
- GSB-9: VOCs only.

The groundwater samples were analyzed by Severn Trent.

Data Evaluation

The analytical data collected during the Limited Site Investigation activities were reviewed and checked by Delta for completeness and accuracy. The soil analytical data were compared to NYSDEC TAGM 4046 recommended soil cleanup objectives. Groundwater analytical data were compared to NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance values for groundwater. Data summary sheets are presented in Attachment 2.

31 March 2005 Phil Bousquet, Esq. Delta Project No. 0502010P Page 4 of 5

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RESULTS

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples (Table 1). Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards (Table 2).

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

31 March 2005
Phil Bousquet, Esq.
Delta Project No. 0502010P
Page 5 of 5

DRAFT. CONFIDENTIAL ATTORNEY-CLIENT COMMUNICATION

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

Groundwater Flow

As previously indicated, an accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, groundwater is expected to flow to the west and/or northwest toward the river.

Delta appreciates the opportunity to present the findings of this Limited Soil Investigation. If you have any questions or comments concerning this submittal, feel free to contact the undersigned at (315) 445-0224 or by e-mail (mschumacher@deltaenv.com).

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

may g Schunach

Mark J. Schumacher Project Manager

Attachments

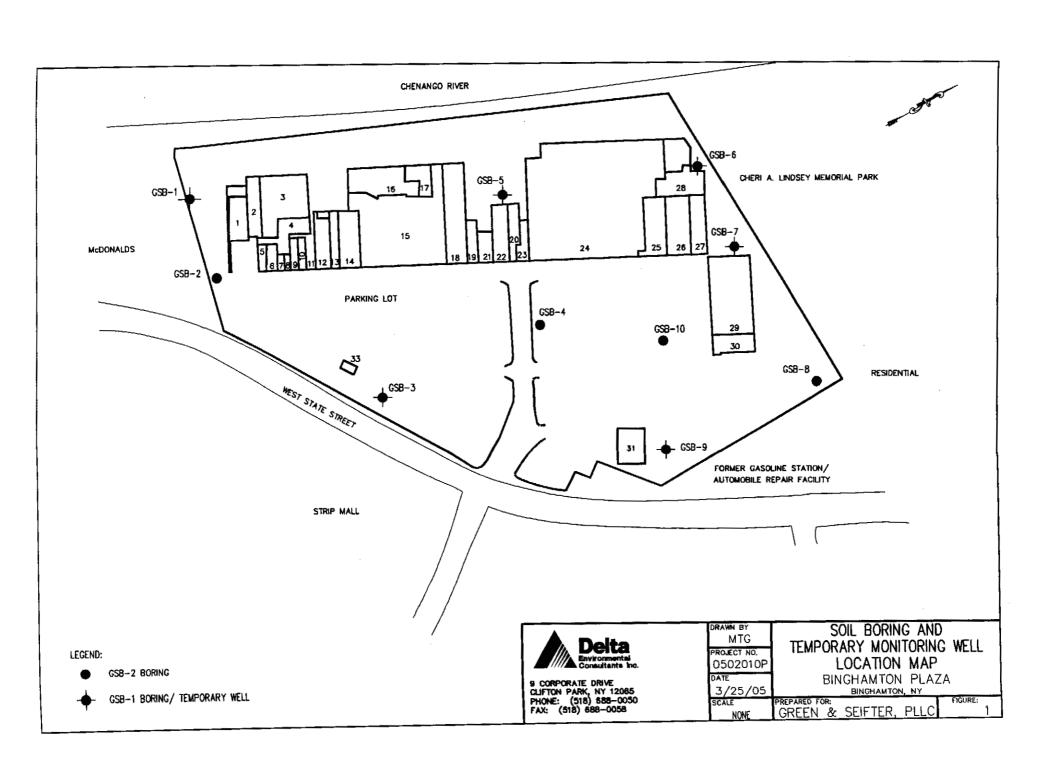


TABLE 1
Summary of Analytical Results - Soil Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

	TAGM 4046			SOIL BO	RINGS		
	Soil Cleanup	SOIL SAMPLE RESULTS					
	Objectives	GSB-1	GSB-3	GSB-6	GSB-7	GSB-9	GSB-10
PARAMETER	(ppb)	(12-16')	(16-20')	(4-8')	(12-16')	(4-8')	(16-20')
Volatile Organic Compounds (ppb)							
Acetone	200	210	57	220_	180	28	200
Benzene	60	4	ND	2	ND	ND	ND
2-Butanone	300	22	12	47	42	ND	40
Carbon Disulfide	2,700	ND	ND	7	1	ND	2
Cyclohexane	NS	38	13	23	3	48	43
1,4-Dichlorobenzene	8,500	ND	4	ND	ND	ND	4
Ethylbenzene	5,500	3	5	2	ND	ND	4
Isopropylbenzene	NS	15	ND	9	ND	ND	18
Methylcyclohexane	NS	4	ND	8	ND	ND	3
Methylene Chloride	100	7	ND	ND	11	ND	8
Toluene	1,500	3	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	3	18
Xylenes (total)	1,200	17	ND	54	ND	ND_	100
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	50,000	2,000	ND	320	ND	ND	ND
Acenaphthylene	41,000	1,800	ND	280	ND	ND	ND
Anthracene	50,000	4,100	ND	ND	ND	ND	2,300
Benzo(a)anthracene	224 or MDL	7,600	ND	460	460	350	3,000
Benzo(b)fluoranthene	1,100	12,000	ND	810	830	560	2,700
Benzo(k)fluoranthene	1,100	13,000	ND	910	940	630	ND
Benzo(a)pyrene	61 or MDL	3,800	ND	210	1,500	280	2,300
Chrysene	400	10,000	ND	680	570	360	2,600
Dibenzo(a,h)anthracene	14 or MDL	1,500	ND	ND	340	ND	ND
Fluoranthene	50,000	23,000	ND	1,500	300	890	8,500
Fluorene	50,000	5,100	ND_	630	ND	ND	2,000
Indeno(1,2,3-cd)pyrene	3,200	1,800	ND	ND	300	ND	ND_
2-Methylnaphthalene	36,400	5,400	ND	13,000	ND	690	ND
Naphthalene	13,000	3,900	ND_	3,400	ND	140	ND
Phenanthrene	50,000	25,000	180	1,000	220	520	9,200
Pyrene	50,000	12,000	ND	1,200	280	530	4,800
PCBs Total (ppb)							
Aroclor 1242	10,000 (1)	ND	340	ND	ND_	ND_	ND
Aroclor 1254	10,000 (1)	ND	220	420	ND_	3000	ND
Metals (ppm)							
Arsenic	7.5 or SB	5.1	7.3	76.2	4.6	7.9	5.0
Barium	300 or SB	148	332	304	57.1	529	140
Cadmium	1 or SB	ND	0.71	2.20	ND	2.0	ND_
Chromium	10 or SB	16.6	38.8	39.1	17.8	25.9	24.8_
Lead	SB (2)	208	1200	863	98.9	1110	233
Mercury	0.1	0.30	0.23	3.50	0.30	0.34	0.34
Selenium	2 or SB	ND	ND	68.8	ND	ND	ND
Silver	SB	2.7	12.8	ND	ND	28.5	10.6

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard; MDL: Method Detection Limit; SB: Site Background

12,000 Analyte detected at concentration in excess of NYSDEC TAGM 4046 recommended soil cleanup objective.

^{(1):} Cleanup objective for subsurface soils.

^{(2):} Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

TABLE 2 Summary of Analytical Results - Groundwater Samples VOCs, SVOCs, PCBs and Metals Binghamton Plaza - Limited Site Investigation

	NYSDEC Class GA		TEMPOF	RARY MO	NITORING	RING WELLS			
	Groundwater	GROUNDWATER SAMPLE RESULTS (ppb)							
PARAMETER	Standard/Guidance Value (ppb)	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9		
Volatile Organic Compounds (ppb)									
Acetone	50	4.20	ND	ND	4.60	4.60	64		
Benzene	1	0.57	ND	0.45	7.90	0.80	ND		
2-Butanone	50	ND	ND	ND	2.90	ND	18		
Carbon Disulfide	NS	0.27	0.31	ND	1.70	1.40	ND		
Chlorobenzene	5	0.52	ND	ND	ND	9.70	ND		
Chloroform	7	ND	ND	ND	0.41	ND	ND_		
Cyclohexane	NS	2.10	5.20	9.90	23	4.90	0.91		
1,3-Dichlorobenzene	3	ND	ND	ND	0.70	ND	ND		
1,4-Dichlorobenzene	3	0.32	ND	ND	0.72	2.30	ND		
cis-1,2-Dichloroethene	5	ND	ND	11	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND	1.40	ND	ND		
2-Hexanone	50	2.0	ND	ND	ND	ND	ND		
Isopropyl benzene	5	1.20	ND	0.23	4.50	1.80	ND		
Methylcyclohexane	NS	0.62	ND	ND	ND	ND	ND		
Methylene Chłoride	5	0.69	ND	ND	5.90	0.63	ND		
MTBE	10	0.82	ND	ND	ND	ND	ND		
Tetrachloroethene	5	ND	ND	8.60	ND	ND	ND		
Trichloroethene	5	ND	ND	5.50	ND	ND	ND		
Vinyl Chloride	2	ND	ND	4.0	ND	ND	ND		
Xylenes (total)	5	0.72	ND	ND	13	ND	ND		
Semi-Volatile Organic Compounds (ppb)									
Acenaphthene	20	ND	ND	3.0	5.0	ND	NA_		
Benzo(a)anthracene	0.002	ND	ND	ND	3.0	ND	NA		
Benzo(b)fluoranthene	0.002	ND	ND	ND	4.0	ND	NA		
Chrysene	0.002	ND	ND	2.0	3.0	ND	NA		
Fluoranthene	50	ND	ND	5.0	8.0	ND	NA		
Fluorene	50	ND	ND	2.0	3.0	ND	NA		
2-Methylnaphthalene	NS	ND	ND	ND	7.0	2.0	NA		
Naphthalene	10	ND	ND	ND	16.0	ND	NA		
Phenanthrene	50	ND	ND	5.0	6.0	ND	NA		
Pyrene	50	ND	ND	3.0	5.0	ND	NA		
PCBs Total (ppb) (Aroclor 1254)	0.09	0.32	NA	ND	NA	ND	NA		
Metals (ppb)									
Arsenic	25	140	NA	ND	NA	100	NA		
Barium	1,000	3,600	NA	170	NA	1,700	NA		
Cadmium	5	15	NA	ND	NA	1.5	NA		
Chromium	50	210	NA	8.8	NA	190	NA		
Lead	25	4,000	NA	30	NA	1,500	NA		
Mercury	0.7	50	NA NA	ND	NA	17	NA		
Selenium	10	ND	NA	ND	NA	ND	NA		
Silver	50	88	NA	ND	NA	4.1	NA		

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard

Analyte detected at concentration in excess of NYSDEC Class GA Groundwater Standard or Guidance Value.

ATTACHMENT 1 SOIL BORING LOGS

					BORING NO., GSD-1	Sheet 1 of 1
					Site Investigation	Silect 1 of 1
	IT: Gree			.LC 010P 000	1	
	A PROJI				SAMPLER BIT SIZE CORE CASING	
	ING RIG			usii	Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	ERS: Sut			Sol'ns	INSPECTOR: SCOTT BRYANT	
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER	REC.	PID READING		
		6*			SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.8	2.0	0.5-1.5' Sand (f-cs) and gravel (f), black, dry 1.5-3.8' Sand (f-cs) some gravel (f-cs) some silt, gray-brown,	staining
3.0					hard, dry	
4.0						
5.0						
6.0	2	NA	3.4	12.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with some fill (metal wire and glass fragments), dry to damp	Weak oily odor in fill material
7.0					Some III (moul wife and glass regularity)	
8.0	-		<u> </u>		_	
9.0						
10.0	3	NA	1.7	16.0	Same as above, less gravel with more fill - wood, slag, ash, etc.	Weak oily odor in fill material
11.0	:					
12.0						
13.0			Ē			
14.0	4	NA	3.2	33.0	Same as above - more fill (ash, wire, brick, wood, copper wire,	Weak oily odor in fill material
15.0					tarry substance) mixed with sand and gravel, damp to moist, brown to black	
16.0)					
17.0)					
18.0	5	NA	. 1.0) -	Same as above, black, saturated	Weak oily odor
19.0	0				·	III III iijateriai
20.0	0				EOB @ 20'	

					BORING NO.: GSB-2	03 11 0 1
PROJE	ECT: Bin	gamton	Plaza	- Limited	Site Investigation	Sheet 1 of 1
CLIEN	T: Gree	n & Seif	ter, PI	LC		
ELT	A PROJI	ECT NO	0502	010P 000		
RILL	ING MET	THOD: I	Direct F	ush	SAMPLER BIT SIZE CORE CASING	DATE: 3-09-05
RILL	ING RIG	: Concore	d 9200		Macro Core 1-1/2" ID NA NA	DATE: 3-09-03
RILL	ERS: Sub	surface I	Orilling	Sol'ns	INSPECTOR: SCOTT BRYANT	
EPTH	SAMPLE	BLOWS	REC.	PID		
NFT.	NUMBER	PER		READING		1
		6"			CON PROPERTION	REMARKS
					SOIL DESCRIPTION	14,31,11
1.0 2.0		NA NA	3.2	0.0	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt little clay, more	No odor or staining
	1 *	1 12 1	٠	. 010	silt and clay toward bottom, damp to moist, gray-brown	
3.0					sint and only toward contain, samp is a	
4.0	1					1
	 	-	 		1	
5.0						
6.0	2	NA	1.2	0-1	Same as above, dry to damp	No odor or
	1	}		1		staining
7.0						
8.0	1					
:-	 		 			
9.0			1	[
	1	-				
10.0	3	NA	2.4	3-4	Sand (f-cs) little silt little gravel (f-m) trace clay, finer with	No odor or
					depth, gray-brown with some glass fragments, damp to moist	staining
11.0]					
	1		1			
12.0						
	+	+	1	 		
13.0						
,	1					
14.0	4	NA	1.8	0-1	0-0.6' Same as above, damp to moist	No odor or
] '	````			0.6-1.8' Sand (f-cs) trace gravel (f-m) trace silt trace clay,	staining
15.0	1				gray brown, damp	
	1	1				
16.0	.		1			
10.0		+ -	+-	+	-	
17.0	, [
17.0					0-0.5' Same as above, saturated	No odor or
18.0) 5	l NA	2.5	3-4	0.5-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick frags,	staining
10.0	' ∤ ³	NA	2.2) 3-4	slag, etc., black, saturated	
10.0]	1.8-3.0' Silt some clay trace sand (f), olive-gray, wet	
19.0	' 				11.0-3.0 SHE Some Clay trace Same (1), onve gray, wee	1
		1		ł	EOB @ 20'	
20.0	'				EOD (a) 20	

PROJI	ECT: Bin	gamton	Plaza	- Limited	Site Investigation	Sheet 1 of 2
	IT: Gree					
				010P 000		
	ING MET			ush	SAMPLER BIT SIZE CORE CASING Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
_	ING RIG			Callan	Macro Core 1-1/2" ID NA NA INSPECTOR: SCOTT BRYANT	DATE: 5-07 05
	ERS: Sub				INSPECTOR: SCOTT BRYANT	
DEPTH IN FT.	SAMPLE NUMBER	BLOWS	REC.	PID READING		
DATE.	NOMBER	PER 6"		READING		
					SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.8	1.1	0.5-3.0' Sand (f-cs) some gravel (f-cs) little silt, gray-brown, hard, dry, some glass fragments	staining
3.0					3.0-3.8' Sand (f-cs) trace gravel (f), black, fill with glass, wire, ash, dry, soft	
4.0						
5.0						
6.0	2	NA	0.7	3.0	Same as above, very soft, dry-damp	Weak oily odor in fill
7.0						
8.0	 		<u> </u>			1 1
9.0				Ì		i
10.0	3	NA	0.8	2.5	Same as above, very soft with newspaper and plastic in the	Weak oily odor
			0.0	2.5	fill, black, damp	in fill
11.0					·	
12.0	-					
13.0						
14.0	4	NA	0.8	115.0	Same as above, very soft, damp to moist	Weak oily odor in fill
15.0						
16.0				-		
17.0						
18.0	5	NA	0.6	275.0	Same as above, moist	Weak oily odor in fill
19.0						
20.0						

					BURING NO.: GSB-3	
PROJ	ECT: B	ingamto	n Plaz	a - Limite	d Site Investigation	Sheet 2 of 2
CLIEN	IT: Gre	en & Se	eifter, l	PLLC		
DELT.	A PRO	JECT N	IO: 05	02010P 00		
DRILLING METHOD: Direct Push					SAMPLER BIT SIZE CORE CASING	
		G: Conc			Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
DRILL	ERS: S	ubsurfac	e Drilli	ng Sol'ns	INSPECTOR: SCOTT BRYANT	
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER		READING		
		6*				
<u></u>					SOIL DESCRIPTION	REMARKS
21.0						
22.0	6	NA	2.4	-	Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated	No odor or staining
23.0					Saturated	
24.0		. ——-			EOB @ 24'	
25.0					LOB (#) 24	
26.0						
27.0						
28.0				:		
29.0		 				
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						

					BORING NO.: GSB-4	01 1 - C 1
ROJI	ECT: Bin	gamton	Piaza	- Limited	Site Investigation	Sheet 1 of 1
CLIEN	IT: Gree	n & Seit	fter, PI	LLC		
ELT	A PROJ	ECT NO): 0502	2010P 000		
	ING ME				SHAN EER EN SIE	DATE: 3-09-05
	ING RIG				Ivideto Cole 1-1/2 IB	DITTE
	ERS: Sub				INSPECTOR: SCOTT BRYANT	
DEPTH N FT.	SAMPLE NUMBER	BLOWS PER	REC.	PID READING		
NFL.	NOMBER	6"		READING		
		Ť			SOIL DESCRIPTION	REMARKS
1.0					0-1' Asphalt and road base gravel	No odor or
2.0	1	NA	3.8	3.2	1-3.8' Sand (f-cs) some gravel little silt, gray-brown, dry to damp, hard, coarse	staining
3.0		:				
4.0						
5.0						No odor or
6.0	2	NA	3.4	1.0	Sand (f-cs) some gravel little silt little clay, gray-brown, wet to saturated with fill material - paper, glass, brick, ash, etc., in	staining
7.0					bottom half of the sample	
8.0	-					
9.0					a to the second wood fill saturated	No odor or
10.0		NA	1.2	2.5	Same as above with more paper and wood fill, saturated, refusal at 11.8'	staining
11.0					EOB @ 12'	
12.0 13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.						

					BORING NO.: GSB-5	Sheet 1 of 1
PROJI	CT: Bin	gamton	Plaza	- Limited	Site Investigation	Sheet 1 of 1
CLIEN	VT: Gree	n & Seit	ter, PI	LC		
ELT	A PROJ	ECT NO): 0502	010P 000		
RILL	ING ME	THOD: I	Direct F	ush	SAMPLER BIT SIZE CORE CASING	DATE: 3-10-05
	ING RIG				Macro Core 1-1/2" ID NA NA	DATE. 5-10-05
RILL	ERS: Sut	surface l	Orilling	Sol'ns	INSPECTOR: SCOTT BRYANT	
EPTH	SAMPLE	BLOWS	REC.	PID		
N FT.	NUMBER	PER		READING		
		6*			SOIL DESCRIPTION	REMARKS
	<u> </u>				SOIL DESCRIPTION	
1.0 2.0	1	NA	3.2	1-2	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt, gray-brown,	No odor or staining
2.0	1	I IVA	3.2	1-2	coarse, dry to damp toward bottom	
3.0					Coarse, any to damp toward bottom	
4.0				[1
	1	 			1	1
5.0				:		No odor or
6.0	2	NA	2.4	1.5	0-2.0' Same as above, damp to moist	1
					2.0-2.4' Sand (f-cs) little gravel (f), black, wet fill material	staining
7.0					with ash, tile, brick, glass, etc.	
	1	İ		1		
8.0			<u> </u>			
9.0						
	1		1			Very weak
10.0	3	NA	0.4	2.0	Same as above, saturated, black	oily odor
				1		Ony oder
11.0	·		1	-		
	ĺ	•	1			
12.0	<u> </u>			_		
		İ				
13.0)					
						No odor or
14.0	4	NA	0.4	-	Same as above	staining
١						344111115
15.0)					ļ
					FOR @ IE	
16.0	2	_			EOB @ 15'	
1			1			
17.0)				1	
1						
18.0	0					
				ł		
19.	0		1	- [
20.	0					

TEST BORING LOG

BORING	NO.:	GSB-6

					Site Investigation	Sheet 1 of 1
	A PROT			LLC 2010P 000	1	
	ING ME				SAMPLER BIT SIZE CORE CASING	
	DRILLING RIG: Concord 9200				Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
DRILL	ERS: Sub	surface	Drilling	Sol'ns	INSPECTOR: SCOTT BRYANT	
	SAMPLE	BLOWS	REC.	PID		1
IN FT.	NUMBER	PER		READING		
		6*			SOIL DESCRIPTION	REMARKS
1.0				-		
2.0	1	NA	3.2	0.5	Sand (f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard	No odor or staining
3.0						
4.0						
5.0						
6.0	2	NA	1.5	40.0	Sand (f-cs) little gravel (f-m) little silt, brown to black at bottom, dry to damp fill with organics toward bottom	Oily odor in bottom 0.4'
7.0						
8.0						
9.0						
10.0	3	NA	0.4	5.0	Sand (f-cs) some silt trace gravel (f-m), dark gray, moist to wet	Weak oily odor
11.0		j.				
12.0						1
13.0			!			
14.0	4	NA	1.8	20.0	0-0.9' Same as above, gray, saturated 0.9-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick, fire	Weak oily odor
15.0					brick, glass, wood, etc., damp to moist	
16.0			_			
17.0					0-0.8' Same as above with newspaper	Weak oily
18.0	5	NA	3.0	8.0	0.8-3.0' Sand (f-m) and silt little clay, dark gray, wet, soft some newspaper and wood fill at top	odor
19.0						
20.0			ļ		EOB @ 20'	

PROJ	PROJECT: Bingamton Plaza - Limited Site Investigation Sheet 1 of 1							
	T: Gree							
	DELTA PROJECT NO: 0502010P 0001 DRILLING METHOD: Direct Push SAMPLER BIT SIZE CORE CASING							
	ING ME			ush	SAMPLER BIT SIZE CORE CASING Macro Core 1-1/2" ID NA NA	DATE: 3-10-05		
	ERS: Sul			Sol'ns	INSPECTOR: SCOTT BRYANT			
_	SAMPLE	BLOWS	REC.	PID				
IN FT.	NUMBER	PER		READING				
		6*		į		DEL DE		
					SOIL DESCRIPTION	REMARKS		
1.0								
2.0	1	NA	3.8	0.5	Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry to damp, compact, coarse fill	No odor or staining		
3.0								
	ļ					1		
4.0								
5.0			:					
6.0	2	NA	1.9	1.0	Sand (f-cs) some gravel (f-cs) little silt trace clay, fines	No odor or		
					toward bottom, damp to moist, gray-brown grading to dark	staining		
7.0				ļ	brown, minor fill material near bottom - glass and brick	1		
8.0								
9.0								
1				ļ	0-0.6' Same as above			
10.0	3	NA	1.6	3.0	0.6-1.6' Sand (f-cs) little silt little gravel (f-m), damp to wet,	Weak oily odor		
					black with fill - ash, glass, brick, metal, plastic, wood, etc.			
11.0			Ì					
1			1					
12.0			ļ					
1,20								
13.0				1				
14.0	4	NA	1.0	5.0	Same as above, dark brown with more metal	Weak oily odor		
17.0	7	INA	1.0	3.0	Same as above, dark brown with more mean			
15.0								
	1	1		1				
16.0		<u>l</u>						
17.0								
			1					
18.0	5	NA	0.8	-	Same as above, saturated, refusal at 17'	Weak oily odor		
19.0								
1			1		EOB @ 17'			
20.0								

PROJ	ECT: Bir	gamton	Plaza	- Limited	Site Investigation	Sheet 1 of 1
CLIEN	VT: Gree	n & Sei	fter, Pl	LLC		
				2010P 000	, · · · · · · · · · · · · · · · · · · ·	
	ING ME				SAMPLER BIT SIZE CORE CASING	D 4 (TE: 2 00 05
	ING RIG				Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	ERS: Sub				INSPECTOR: SCOTT BRYANT	
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER	REC.	PID		1
IN F1.	NOMBER	6*		READING		
					SOIL DESCRIPTION	REMARKS
1.0						
2.0	1	NA	3.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with depth, dry to damp with some small brick fragments	No odor or staining
3.0					depth, dry to damp with some small block fragments	
4.0						
5.0						
6.0	2	NA	2.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown, re-worked soil with minor fill material - brick frags and wood near bottom,	No odor or staining
7.0					dry to damp	Summig
8.0		<u> </u>				1
9.0						
10.0	3	NA	0.0	-	Refusal at 8.2' - no recovery	
11.0					EOB @ 8.2'	
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
19.0						
20.0						

	PROJECT: Bingamton Plaza - Limited Site Investigation Sheet 1 of 1					
	CLIENT: Green & Seifter, PLLC DELTA PROJECT NO: 0502010P 0001					
	ING ME				SAMPLER BIT SIZE CORE CASING	
	ING RIG				Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
DRILL	ERS: Sul	surface	Drilling	Sol'ns	INSPECTOR: SCOTT BRYANT	
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER		READING		
		6"			SOIL DESCRIPTION	REMARKS
1.0						No odenom
2.0	,	NTA	20		0-0.8' Asphalt and road base gravel	No odor or staining
2.0	1	NA	3.0	6.0	0.8-2.5' Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry, fill soil	stanning
3.0					2.5-3.0' Sand (f-cs) little gravel (f), black, dry to damp, with	Weak oily odor
3.0					fill material - ash, metal, glass, slag, etc.	, van sii,
4.0			ì		grass, stag, ver	1 [
						[
5.0						1
	١.					VV -1 dom
6.0	2	NA	1.2	3.0	Sand (f-cs) little gravel (f-m) trace silt, black, wet with fill -	Weak oily odor
7.0	1				ash, glass, metal, wire, wood, etc., soft]
1′.0				!		1
8.0				1		
						-
9.0]			
10.0	3	NIA	1,0	1 20	Company of the last transfer o	Weak oily odor
10.0	3	NA	1.0	2.0	Same as above, more fill, black, wet, very soft	weak only odor
11.0						
1			ļ			
12.0		1				
13.0		İ				
1						Westerster odon
14.0	4	NA	1.2	1.5	Same as above, wet	Weak oily odor
15.0					}	
1.5.0				}		
16.0						
	1	1	1		1	
17.0		-		1		
						117 1 211 21
18.0	5	NA	3.8	1.0	Sand (f-m) and silt little clay, wet, soft, dark gray grading to	Weak oily odor
19.0					olive-gray and softer	1
19.0						
20.0					EOB @ 20'	

TEST BORING LOG

BORING NO.: GSB-10

PROJ	PROJECT: Bingamton Plaza - Limited Site Investigation Sheet 1 of 2					
	VT: Gree					
				2010P 000	SAMPLER BIT SIZE CORE CASING	
DRILLING METHOD: Direct Push DRILLING RIG: Concord 9200					Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
	ERS: Sub				INSPECTOR: SCOTT BRYANT	
1	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER	1	READING		1
1		6"			SOIL DESCRIPTION	REMARKS
					SOIL DESCRIPTION	
1.0						
i					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.9	0.5	Sand)f-cs) some gravel (f-cs) little silt, gray-brown, dry,	staining
					hard fill soil	
3.0	ļ					1
4.0						
4.0						
5.0						
1	İ				0-1.3' Same as above	
6.0	2	NA	2.8	5.0	1.3-2.8' Sand (f-cs) some gravel (f-m) trace silt, damp, black	No odor or
					with fill - glass, metal, brick frags, ash, etc.	staining
7.0						
9.0				1		
8.0	ļ					
9.0						
1		Ì				
10.0	3	NA	0.5	8.0	Same as above, damp	No odor or
1				İ		staining
11.0			1			
1,20			ļ	ļ		
12.0						
13.0	1					
13.0						
14.0	4	NA	0.3	10.0	Same as above	No odor or
		- 1.1.	"	1010		staining
15.0						
				l .		
16.0	<u> </u>					1
17.0						
17.0						1
18.0	5	NA	0.9	18.0	Same as above, moist to wet with dark-gray sand and silt	No odor or
1.3.5		111/1	0.9	10.0	at bottom of the tube	staining
19.0			}		at contain of the thou	
1			1			4
20.0		<u></u>				

PROJECT: Bingamton Pazz - Limited Site Investigation Sheef 201 2		BORING NO.: GSB-10							
CLIENT: Green & Seifler, PLLC DELTA PROJECT NO. 693010P 0001	PROJE								
DRILLING METHOD: Direct Posh SAMPLER BIT SIZE CORE CASING	CLIEN	CLIENT: Green & Seifter, PLLC							
Macro Core 1-1/2" 1D NA NA NA DATE: 3-10-05		DRILLING AND DE LA CAMPIED DIT SIZE CORE CASING							
DRILLERS Subsurface Drilling Solms TNSPECTOR: SCOTT BRYANT						G/HVI EEK B11 3122	DATE: 3-10-05		
No. No.						Macro Core 1 1/2 1B			
SOIL DESCRIPTION REMARKS 21.0 22.0 6 NA 0.8 - Sand (F-cs) little gravel (F-m) trace silt, gray-brown, saturated staining EOB @ 24' EOB @ 24' 31.0 32.0 33.0 34.0 35.0 36.0 37.0				_		INSPECTOR: SCOTT BRIANT			
SOIL DESCRIPTION REMARKS	1	1 1		REC.					
21.0 22.0 6 NA 0.8 - Sand (F-cs) little gravel (F-m) trace silt, gray-brown, saturated staining EOB @ 24' EOB @ 24' 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	IN FT.	NUMBER	l l		READING				
21.0 22.0 6 NA 0.8 - Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated No odor or staining	1		6"			SOIL DESCRIPTION	REMARKS		
22.0 6 NA 0.8 - Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining EOB @ 24' EOB @ 24' Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining EOB @ 24' Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining No odor or staining Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining	-	-				201223			
22.0 6 NA 0.8 - Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining EOB @ 24' EOB @ 24' Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining EOB @ 24' Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining No odor or staining Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated staining	اء ا					·			
22.0 6 NA 0.8 - Said (1-cs) little graver (1-iii) face sits gray 5.5 mg staining sta	21.0								
22.0 6 NA 0.8 - Said (1-cs) little graver (1-iii) face sits gray 5.5 mg staining sta						G 1 (C) 1:41	No odor or		
23.0 24.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	22.0	6	NA	0.8	-	Sand (1-cs) little graver (1-m) trace sitt, gray-brown, sucuration			
24.0 EOB @ 24' 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	1								
25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	23.0								
25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0									
26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	24.0]			EOB @ 24'			
26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0									
27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	25.0		<u> </u>						
27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0			ļ		ļ				
27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	26.0			Į			1		
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28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	27.0		Į.						
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30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	20.0	1							
31.0 32.0 33.0 34.0 35.0 36.0 37.0	29.0		l	1		·			
31.0 32.0 33.0 34.0 35.0 36.0 37.0	20.0		Į.	1					
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32.0 33.0 34.0 35.0 36.0 37.0	1								
33.0 34.0 35.0 36.0 37.0	31.0								
33.0 34.0 35.0 36.0 37.0									
34.0 35.0 36.0 37.0	32.0	\	Ì	ŀ					
34.0 35.0 36.0 37.0	1		1						
34.0 35.0 36.0 37.0	33.0		1						
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36.0	25.0	,		ł					
37.0	33.0	'							
37.0	26.6								
	136.0	'	1						
38.0	37.0)			ļ				
38.0	1								
	38.0) [

ATTACHMENT 2 LABORATORY ANALYTICAL REPORTS



STL Buffalo 10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-2260

STL Project#: NY4A9341

Site Name: Delta Environmental Consultants, Inc.

Task: Binghamton Project

Mark Schumacher Delta Environmental 104 Jamesville Rd. Syracuse, NY 13214

STL Buffalo

Brian J ()Fischer Project Manager

03/24/2005

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STL Buffalo Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
	SDWA	956
Georgia Illinois	NELAP SDWA, CWA, RCRA	200003
illilois Iowa	SW/CS	374
owa Kansas	NELAP SDWA, CWA, RCRA	E-10187
	SDWA	90029
Kentucky Kentucky UST	UST	30
Kentucky UST	NELAP CWA, RCRA	2031
Louisiana	SDWA, CWA	NY044
Maine	SDWA	294
Maryland	SDWA, CWA	M-NY044
Massachusetts	SDWA	9937
Michigan	CWA, RCRA	036-999-337
Minnesota	NELAP SDWA, CWA	233701
New Hampshire	SDWA, CWA, RCRA, CLP	NY455
New Jersey	NELAP, AIR, SDWA, CWA, RCRA	10026
New York	CWA	41:
North Carolina	SDWA, CWA, RCRA	R-176
North Dakota	CWA, RCRA	942
Oklahoma	Env. Lab Reg.	68-28
Pennsylvania	RCRA	9101:
South Carolina	FOREIGN SOIL PERMIT	S-4157
USDA		27
Virginia	SDWA	C25
Washington	CWA	25
West Virginia	CWA	99831039
Wisconsin	CWA	33031033

SAMPLE SUMMARY

			SAMPI	ŒD	RECEIVE	3 D
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE_	TIME	DATE	TIME
A5226011	GSB-1	WATER	03/11/2005	09:55	03/12/2005	12:15
A5226002	GSB-1 (12-16)	SOIL	03/09/2005	12:40	03/12/2005	12:15
A5226006	GSB-10 (16-20)	SOIL	03/10/2005	17:00	03/12/2005	12:15
A5226012	GSB-3	WATER	03/11/2005	10:15	03/12/2005	12:15
A5226005	GSB-3 (16-20)	SOIL	03/09/2005	14:00	03/12/2005	12:15
A5226010	GSB-5	WATER	03/11/2005	09:35	03/12/2005	12:15
A5226009	GSB-6	WATER	03/11/2005	09:15	03/12/2005	12:15
A5226001	GSB-6 (4-8)	SOIL	03/10/2005	08:20	03/12/2005	12:15
A5226008	GSB-7	WATER	03/11/2005	08:50	03/12/2005	12:15
A5226004	GSB-7 (12-16)	SOIL	03/10/2005	15:00	03/12/2005	12:15
A5226007	GSB-9	WATER	03/11/2005	08:25	03/12/2005	12:15
A5226003	GSB-9 (4-8)	SOIL	03/09/2005	16:10	03/12/2005	12:15
A5226013	TRIP BLANK	WATER	03/11/2005		03/12/2005	12:15

METHODS SUMMARY

Job#: <u>A05-2260</u>

STL Project#: NY4A9341

Site Name: Delta Environmental Consultants, Inc.

PARAMETER		ALYTICAL ÆTHOD
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS	SW8463	8260
DELIA-METHOD 8260 - TCL VOLATILE ORGANICS	SW8463	8260
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO		-
Delta - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463	8270
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463	8082
Arsenic - Total	SW8463	6010
Barium - Total	SW8463	6010
Cadmium - Total	SW8463	6010
Chromium - Total	SW8463	6010
Lead - Total	SW8463	6010
Mercury - Total	SW8463	7470
Mercury - Total	SW8463	7471
Selenium - Total	SW8463	6010
Silver - Total	SW8463	6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-2260

STL Project#: NY4A9341

Site Name: Delta Environmental Consultants, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-2260

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C No tests were listed on chain of custody for sample GSB-3; tests were assigned according to bottle labels.

GC/MS Volatile Data

The analyte Bromomethane was detected in the Method Blanks A5B0352902 (VBLK82) and A5B0358702 (VBLK84) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The samples GSB-1 (12-16) RI, GSB-9 (4-8) RI, and GSB-7 (12-16) RI were subjected to gel permeation chromatrography cleanup in order to obtain client requested reporting limits.

The spike recoveries for Pyrene were below the laboratory quality control limits in the Matrix Spike GSB-6 (4-8). Since the Matrix Spike Blank A5B0334301 recoveries were compliant, no corrective action was required.

Sample GSB-1 (12-16), 8270 soil, had an adjusted final volume during extraction due to extract matrix and viscosity.

GC Extractable Data

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GSB-7 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8082, many samples required dilution prior to analysis due to the heavy matrix present or high concentration of target analytes. The surrogates are diluted out of all sample extracts with a dilution factor of 10% or greater.

Metals Data

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead(MS) and above quality control limits for Lead(MSD). The sample result is more than four times greater than the spike added. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LCS (A5B0334601) is acceptable.

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results above quality control limits for Chromium(SD), and below quality control limits for Arsenic, Cadmium, Chromium(MS), Selenium, and Silver. Sample matrix is suspect. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Arsenic, Chromium, and Selenium. However, the LCS (A5B0334601) was acceptable.

The recovery of sample GSB-7 Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead. The sample result is more than four times greater than the spike added. The RPD of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LFB (A5B0334701) is acceptable.

The recovery of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Cadmium, Chromium, Mercury and Selenium. Sample matrix is suspect. However, the LFB's (A5B0334701 and A5B0339201) were acceptable.

The value obtained for Mercury on sample GSB-7 was confirmed via reanalysis. Only the result from the original analysis is provided in this data package. The initial overrange value obtained for sample GSB-1 was confirmed by the dilution of that sample.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer Project Manager	
Date	

Dilution Log w/Code Information For Job A05-2260 8/89

Page: 1 Rept: AN1266R

Client Sample_ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GSB-6 (4-8)	A5226001	Mercury - Total	10.00	800
GSB-6 (4-8) DL	A5226001DL	8270	5.00	800
GSB-6 (4-8)	A5226001MS	Mercury - Total	10.00	800
GSB-6 (4-8)	A5226001SD	Mercury - Total	10.00	008
GSB-1 (12-16)	A5226002	8270	10.00	012
GSB-1 (12-16) RI	A5226002RI	8270	5.00	800
GSB-9 (4-8)	A5226003	8082	20.00	800
GSB-9 (4-8)	A5226003	8270	10.00	012
GSB-7 (12-16)	A5226004	8270	10.00	012
GSB-10 (16-20)	A5226006	8270	10.00	800
GSB-7	A5226008MS	Mercury - Total	5.00	800
GSB-7	A5226008SD	Mercury - Total	5.00	800
GS8-1	A5226011	Mercury - Total	10.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-10 (16-20) A05-2260 03/10/2005	A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005	6SB-6 (4-8) A05-2Z60 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	30	200	30	57	30	220	28
Benzene	UG/KG	4 J	6	ND	6	ND	6	2 J	6
Bromodichloromethane	UG/KG	ND	6	· ND	6	ND	6	ND	6
3romoform	UG/KG	ND	6	ND	6	ND ND	6	ND	6
3romomethane	UG/KG	ND 1	6	ND I	6	ND	6	ND	6
2-Butanone	UG/KG	22 J	30	40	30	12 J	30	47	28
Carbon Disulfide	UG/KG	ND	6	2 J	6	ND	6	7	6
Carbon Tetrachloride	UG/KG	ND	6	ND	. 6	ND	6	ND	6
Chlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroform	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloromethane	UG/KG	ND	6	ND ·	6	ND	6	ND	6
Cyclohexane	UG/KG	38	6	43	6	13	6	23	6
1.2-Dibromoethane	UG/KG	ND	6	ND	6	ND	6	ND	6
) ibromochloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	6	ND I	6	ND	6	ND	ó
1,4-Dichlorobenzene	UG/KG	ND	6	1243	6	4 J	6	ND ND	6
Dichlorodifluoromethane	UG/KG	ND	6	ND I	6	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	6	ND ND	6	ND	6		6
1,2-Dichloroethane	UG/KG	ND	6	ND I	6	ND		ND	_
1,1-Dichloroethene	UG/KG	ND	6	ND I	6	ND ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG		6		6	*	6	ND	6
trans-1,2-Dichloroethene	UG/KG	ND		ND (6	ND	6	ND	. 6
rans-7,2-01chtoroethene 1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
		ND	6	ND	- I	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6.	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND .	6	ND ,	6	ND	6	ND	6
Ethylbenzene	UG/KG	3 J	6	4 J	6	ND	6	Z J	6
?-Hexanone	UG/KG	ND	30	ND 40	30	ND	30	ND	28
Isopropylbenzene	UG/KG	15	6	18	6	ND	6	9	6
Methyl acetate	UG/KG	ND	6	ND	6	ND	6	ND	6
Methylcyclohexane	UG/KG	4 J	6	3 J	6	ND	6	8	. 6
Methylene chloride	UG/KG	7	6	8	6	ND	6	ND	6
4-Methyl-2-pentanone	UG/KG	ND	30	ND	30	ND	30	ND I	28 6
1ethyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND I	6	ND	6	ND	
Styrene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2,2-Tetrachioroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
[o(uene	UG/KG	3 J	6	ND	6	ND	6	ND	6
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND (6	ND	6	ND	, 6
1,1,1-Trichtoroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
,1,2-Trichloroethane	UG/KG	ND	6	ND I	6	ND	6	ND	6

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-10 (16-20) A05-2260 03/10/2005	A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005	G\$B-6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/KG UG/KG UG/KG UG/KG UG/KG	ND ND ND ND 17 J	6 6 6 12 18	ND ND ND 18	6 6 6 12 18	ND ND ND ND	6 6 6 12 18	ND ND ND ND	6 6 11 17
IS/SURROGATE(S) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	x x x x x	120 113 105 96 92 88	50-200 50-200 50-200 71-125 68-124 61-136	85 84 87 92 88 90	50-200 50-200 50-200 71-125 68-124 61-136	79 81 69 94 83 90	50-200 50-200 50-200 71-125 68-124 61-136	79 80 87 101 95 83	50-200 50-200 50-200 71-125 68-124 61-136

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-7 (12-16) A05-2260 03/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				,
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	180	29	28 J	30	NA		NA.	
Benzene	UG/KG	ND	6	ND	6	NA NA)	NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	NA NA		NA	
Bromoform	UG/KG	ND	6	ND	6	NA NA	1	NA	1
Bromomethane	UG/KG	ND	6	ND	6	NA NA	J	NΑ	
2~Butanone	UG/KG	42	29	ND	30	. NA	· ·	NA	
Carbon Disulfide	UG/KG		6	ND	6	NA NA	1	NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	NA NA	1	NA	1
Chlorobenzene	UG/KG	ND	6	ND	6	NA	1	NA NA	
Chloroethane	UG/KG	ND ND	6	ND	6	NA NA		NA	
Chloroform	UG/KG	NO	6	ND	6	NA NA		NA	
Chloromethane	UG/KG	ND	6	ND	6	NA	[NA.	\
Cyclohexane	ug/kg	"" _{3 J}	6	48	6	NA NA]	NA	
,2-Dibromoethane	UG/KG	ND	6	ND	6	NA NA	1	NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	NA NA	!	NA	}
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	· NA		NA	
,2-Dich(orobenzene	UG/KG	ND	6	ND	6	NA NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	NA NA	1	NA NA	l .
,4-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Dichloradifluoromethane	UG/KG	ND I	6	ND	6	NA NA		NA.	
,1-Dichloroethane	UG/KG	ND I	6	ND	6	NA NA	}	NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	NA NA	[NA NA	1
,1-Dichloroethene	UG/KG	ND I	6	ND	6	NA NA		NA	
is-1,2-Dichloroethene	UG/KG	ND I	ő	ND	6	NA NA	1	NA NA	
rans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA NA		NA NA	
	UG/KG	ND ND	6	ND	6	NA NA	ļ '	NA NA	
1,2-Dichloropropane cis-1,3-Dichloropropene	UG/KG	ND ND	6	ND	6	NA NA		NA NA	
trans-1,3-Dichloropropene	UG/KG	ND ND	6	ND ND	6	NA NA	1	NA	
	UG/KG	ND .	6	ND	6	NA NA		NA NA	
Ethylbenzene 2-Hexanone	UG/KG	ND I	29	ND ND	30	NA NA)	NA	
	ug/kg	ND I	6	ND	6	NA NA	ļ .	NA NA	
isopropylbenzene	UG/KG	ND ND	6	ND ND	6	NA NA		NA .	1
Methyl acetate	UG/KG	ND I	6	ND	6	NA NA)	NA NA	\
Methylcyclohexane	UG/KG	11	6	ND ND	6	NA NA		NA	{
Methylene chloride	UG/KG	ND	29	ND ND	30	NA NA		NA	1
4-Methyl-2-pentanone	UG/KG	ND ND	6	ND	6	NA NA		NA	
Methyl-t-Butyl Ether (MTBE)			6	ND	6	NA NA		NA NA	1
Styrene	UG/KG	ND	6		6	NA NA		NA NA	1
1,1,2,2-Tetrachloroethane	UG/KG	ND	•	ND	6	NA NA		NA NA	Į.
Tetrachloroethene	UG/KG	ND	6	ND ND	6	NA NA	1	NA	Ť
Toluene	UG/KG	ND	6	ND ND	· -	NA NA		NA NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	NA NA		NA	
,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ł .	1	NA NA	1
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	NA NA	\	1	<u> </u>

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-7 (12-16) A05-2260 03/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/KG UG/KG UG/KG UG/KG UG/KG	ND ND ND ND ND	6 6 12 17	ND ND 3 J ND	6 6 6 12 18	NA NA NA NA		NA NA NA NA	
IS/SURROGATE(S) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	X X X X X	109 109 99 96 88 86	50-200 50-200 50-200 71-125 68-124 61-136	110 108 97 99 88 85	50-200 50-200 50-200 71-125 68-124 61-136	NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: ANO326

GSB-1 GSB-3 GSB-5 GSR-6 Client ID A05-2260 A05-2260 A5Z26011 A05-2260 A5226012 A05-2260 A5226010 A5226009 Job No Lab ID 03/11/2005 03/11/2005 03/11/2005 03/11/2005 Sample Date Report ina Reporting Sample Reporting Sample Reporting Sample Sample Analyte Units Value Limit Value Limit Value Limit Value Limit UG/L 5.0 5.0 5.0 4.6 J 5.0 Acetone 4.2 J ND ND 0.45 J Benzene UG/L 0.57 J 1.0 ND 1.0 1.0 7.9 1.0 UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 Bromodichloromethane UG/L 1.0 Bromoform ND 1.0 ND 1.0 ND 1.0 ND Bromomethane UG/L NĐ 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L Z-Butanone ND 5.0 ND 5.0 ND 5.0 2.9 J 5.0 UG/L Carbon Disulfide 0.27 J 1.0 0.31 J ND 1.0 1.0 1.0 1.7 Carbon Tetrachloride UG/L NÞ 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L Chlorobenzene 0.52 J 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L Chloroethane ND 1.0 ND 1.0 NĐ 1.0 ND 1.0 chloroform UG/L 1.0 ND ND 1.0 ND 1.0 0.41 J 1.0 Chlorome thane UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 Cyclohexane ŲG/L 2.1 1.0 5.2 1.0 9.9 1.0 23 1.0 1,2-Dibromoethane įυG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 Dibromochloromethane UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 1,2-Dibromo-3-chloropropane UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 1,2-Dichlorobenzene UG/L ND 1.0 NĐ 1.0 ND 1.0 ND 1.0 1.3-Dichlorobenzene lug/L ND 1.0 ND 1.0 ND 1.0 0.70 J 1.0 1.4-Dichlorobenzene UG/L 0.32 J1.0 ND 1.0 ΝĐ 1.0 0.72 J 1.0 Dichlorodifluoromethane UG/L 1.0 ND ND 1.0 ND 1.0 ND 1.0 1,1-Dichloroethane UG/L 1.0 ND ND 1.0 ND 1.0 ND 1.0 1,Z-Dichloroethane UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 1,1-Dichloroethene UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 cis-1,2-Dichloroethene UG/L ND 1.0 ND 1.0 11 1.0 ND 1.0 trans-1,2-Dichloroethene UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 1,2-Dichloropropane UG/L ND 1.0 ND 1.0 ND 1.0 NO 1.0 cis-1,3-Dichloropropene lug/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 trans-1,3-Dichloropropene UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L Ethylbenzene ND 1.0 ND 1.0 ND 1.0 1.0 1.4 2-Hexanone UG/L 2.0 J 5.0 ND 5.0 5.0 ND ND 5.0 Isopropylbenzene lug/L 1.2 1.0 ND 1.0 0.23 J1.0 4.5 1.0 Methyl acetate UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 Methylcyclohexane UG/L 0.62 J1.0 ND 1.0 ND 1.0 1.0 ND Methylene chloride UG/L 0.69 J1.0 ND 1.0 ND 1.0 5.9 1.0 4-Methyl-2-pentanone lug/L 5.0 5.0 ND 5.0 ND 5.0 NO NO 1.0 Methyl-t-Butyl Ether (MTBE) lug/L 0.82 J 1.0 ND 1.0 ND 1.0 ND Styrene UG/L 1.0 1.0 ND 1.0 NO 1.0 ND ND 1.0 lug/L 1.0 ND 1.0 ND 1.1.2.2-Tetrachloroethane ND 1.0 ND 1.0 Tetrachloroethene UG/L 1.0 ND 1.0 8.6 1,0 ND ND 1.0 1.0 1.0 ND Toluene |UG/∟ ND 1.0 NĐ ND 1.0 1,2,4-Trichlorobenzene UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 NĐ 1.0 ND 1.0 ND 1,1,1-Trichloroethane UG/L ND 1.0 ND 1.0 ND 1.0 1.0 1,1,2-Trichloroethane UG/L ND 1.0 ND

Delta Environmental Consultants, Inc. Binghamton Project

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS Rept: ANO326

Date: 03/24/2005 Time: 16:18:43

Client ID Job No Lab ID Sample Date		GSB-1 A05-2260 03/11/2005	A5226011	GSB-3 A05-2260 03/11/2005	A5226012	GSB-5 A05-2260 03/11/2005	A5226010	GSB-6 A05-2260 03/11/2005	A5226009
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L	ND ND ND ND O-72 J	1.0 1.0 1.0 1.0 3.0	ND ND ND ND	1.0 1.0 1.0 1.0 3.0	ND ND 5.5 4.0 ND	1.0 1.0 1.0 1.0 3.0	ND ND ND ND	1.0 1.0 1.0 1.0 3.0
Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	X	88 88 91 99 94 104	50-200 50-200 50-200 76-116 73-117 72-143	89 89 68 99 94 105	50-200 50-200 50-200 76-116 73-117 72-143	90 91 89 99 96 103	50-200 50-200 50-200 76-116 73-117 72-143	89 91 92 100 96 101	50-200 50-200 50-200 76-116 73-117 72-143

Delta Environmental Consultants, Inc. Binghamton Project DELTA -- METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-7 A05-2260 03/11/2005	A5226008	G\$B-9 A05-2260 03/11/2005	A5226007				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.6 J	5.0	64	5,0	NA	1	NA	1
3enzene	UG/L	0.80 J	1.0	ND	1.0	NΑ	ļ j	NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	NO	1,0	ND	1.0	NA		NA	
2~Butanone	lug/L	ND	5.0	18	5.0	NA	[NA	
Carbon Disulfide	UG/L	1.4	1.0	ND	1.0	NA	1	NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	9.7	1.0	ND	1.0	NA	[NA	1
Chloroethane	UG/L	ND	1,0	ND	1.0	NA		NA	
thloroform	UG/L	ND .	1.0	ND	1.0	NA.]	NA	
Chloromethane	UG/L	ND	1.0	ND	1,0	NA.	1	NA.	}
Cyclohexane	UG/L	4.9	1,0	0.91 J	1.0	NA		NA.	
1,2-0ibromoethane	UG/L	ND	1,0	ND	1.0	NA	1	NA	
ibromochloromethane	UG/L	ND	1.0	ND	1.0	NA NA		NA.	1
,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA NA		NA NA	
.2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA NA		NA NA	
.3-Dichlorobenzene	UG/L	ND ND	1.0	ND	1.0	NA NA	1	NA NA]
,4-Dichlorobenzene	UG/L	2.3	1.0	ND	1.0	NA NA		NA NA	
chlorodifluoromethane	UG/L	ND ND	1.0	ND ND	1.0	NA NA			
.1-Dichloroethane	UG/L	ND ND	1.0	ND	1.0	NA NA	Į į	NA ***	j
* * * * * * * * * * * * * * * * * * * *	UG/L							NA .	
,2-Dichloroethane		ND	1.0	ND	1.0	NA		NA	
,1-Dichloroethene	UG/L UG/L	ND	1.0	ND	1.0	NA	İ	NA	
is-1,2-Dichloroethene		ND	1.0	ND	1.0	NA	i 1	NA	1
rans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA 	}
,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA NA	
is-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA	[NA	i
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA NA	
thylbenzene	UG/L	ND	1.0	ND	1.0	NA	ļ	NA ***	1
!-Hexanone	UG/L	ND	5.0	ND	5.0	NA	1	NA 	1
Isopropylbenzene	UG/L	1.8	1.0	ND	1.0	NA 		NA ***	1
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA NA	ļ	NA NA	
lethylcyclohexane	UG/L	ND	1.0	NO	1.0	NA	}	NA NA	1
lethylene chloride	UG/L	0.63 J	1.0	ND	1.0	NA		NA 	
-Methyl-2-pentanone	JUG/L	ND	5.0	ND	5.0	NA]	NA 	1
ethyl-t-Butyl Ether (MTBE)	UG/L [ND	1.0	ND .	1.0	NA]	NA	1
Styrene	UG/L	ND	1.0	ND] 1.0	NA]	NA	
,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA.	
etrachloroethene	UG/L	ND	1.0	ND	1.0	NA	ļ j	NA	J
oluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA	1	NA	1
,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA	1 /	NA	1

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-7 A05-2260 03/11/2005	A5226008	GSB-9 A05-2260 03/11/2005	A5226007				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L UG/L	ND ND ND ND ND	1.0 1.0 1.0 1.0 3.0	ND ND ND ND	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA	
IS/SURROGATE(S) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	% % % % %	86 86 88 99 94 102	50-200 50-200 50-200 76-116 73-117 72-143	87 89 87 101 93 101	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5Z26002	GSB-1 (12-16) A05-2260 03/09/2005	RI A5226002RI	GSB-10 (16-20 A05-2260 03/10/2005) A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A\$226005
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	ug/kg	ND ND	40000	2000	2000	ND	4000	. ND	410
Acenaphthylene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
Anthracene	UG/KG	ND	40000	4100	2000	2300 J	4000	ND	410
Benzo(a)anthracene	lug/kg	ND	40000	7600	2000	3000 J	4000	ND	410
Benzo(b)fluoranthene	UG/KG	ND	40000	12000	2000	2700 J	4000	ND	410
Benzo(k)fluoranthene	ug/kg	ND	40000	13000	2000	ND	4000	ND	410
Benzo(ghi)perylene	ug/kg	ND	40000	ND	2000	ND	4000	ND	410
Benzo(a)pyrene	UG/KG	ND	40000	3800	2000	2300 J	4000	ND	410
Chrysene	UG/KG	ND	40000	10000	2000	2600 J	4000	ND	410
Dibenzo(a,h)anthracene	UG/KG	ND	40000	1500 J	2000	ND	4000	ND	410
Fluoranthene	UG/KG	23000 J	40000	23000	2000	8500	4000	ND	410
Fluorene	UG/KG	ND	40000	5100	2000	2000 J	4000	ŇD	410
Indeno(1,2,3-cd)pyrene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
2-Methylnaphthalene	UG/KG	ND	40000	5400	2000	ND	4000	ND	410
Naphthalene	UG/KG	ND	40000	3900	2000	l ND	4000	ND	410
Phenanthrene	UG/KG	26000 J	40000	25000	2000	9200	4000	180 J	410
Pyrene	UG/KG	15000 J	40000	12000	2000	4800	4000	ND	410
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	[x]	83	50~200	102	50~200	84	50-200	88	50~200
Naphthalene-D8	1%	91	50~200	101	50~200	92	50-200	93	50~200
Acenaphthene-D10	1%	93	50~200	91	50-200	93	50-200	91	50~200
Phenanthrene-D10	[%	88	50~200	89	50-200	90	50~200	96	50~200
Chrysene-D12	\ % \	111	50~200	123	50-200	124	50-200	141	50~200
Perylene-D12	\%	115	50~200	156	50 - 200	109	50-200	116	50~200
Nitrobenzene-D5	1%	85	30-127	67	30-127	73	30~127	76	30-127
Z-Fluorobiphenyl	{ <i>x</i>	96	36-138	80	36-138	84	36~138	92	36~138
p-Terphenyl-d14	[%	76	41-167	66	41-167	60	41-167	68	41-167
Phenol-D5	1%	68	34-120	62	34-120	65	34~120	73	34-120
2-Fluorophenol	1 1	67	26-120	49	26-120	56	26~120	60	26-120
2,4,6-Tribromophenol	1%	91	42-140	76	42-140	88	42~140	96	42-140

, Delta Environmental Consultants, Inc. Binghamton Project DELTA ~ METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-6 (4-8) A05-2260 03/10/2005	A05-2260 A5226001		A5226001pl	GSB-7 (12-16) A05-2260 03/10/2005	A5226004	GSB-7 (12-16) A05-2260 03/10/2005	RI A52Z6004RI
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	320 J	430	ND	2200	ND	4200	ND	420
Acenaph thy lene	UG/KG	280 J	430	ND	2200	ND	4200	ND	420
Anthracene	ug/Kg	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)anthracene	UG/KG	460	430	ND	2200	ND	4200	460	420
Benzo(b)fluoranthene	UG/KG	810	430	ND	Z200	ND	4200	830	420
Benzo(k)fluoranthene	UG/KG	910	430	ND	2200	ND	4200	940	420
Benzo(ghi)perylene	UG/KG	ND	430	ND	2200	ND :	4200	ND	420
Benzo(a)pyrene	UG/KG	210 J	430	ND	2200	2000 J	4200	1500	420
Chrysene	UG/KG	680	430	ND	2500	ND	4200	570	420
Dibenzo(a,h)anthracene	UG/KG	ND	430	סא	2200	ND	4200	340 J	420
Fluoranthene	UG/KG	1400	430	1500 DJ	2200	ND 1	4200	300 J	420
Fluorene	UG/KG	630	430	ND	2200	ND .	4200	ND	420
Indeno(1,2,3~cd)pyrene	UG/KG	ND	430	ND	2200	ND	4200	300 J	420
2-Methylnaphthalene	UG/KG	13000 E	430	13000 p	2200	ND	4200	ND	420
Naphthalene	UG/KG	3200	430	3400 D	2200	ND	4200	ND	420
Phenanthrene	UG/KG	940	430	1000 DJ	2200	ND	4200	220 J	420
Pyrene	ug/kg	1200	430	980 DJ	2200	ND	4200	280 J	420
===IS/SURROGATE(S)====									
1,4-Dichlorobenzene-D4	(% f	62	50-200	102	50-200	86	50-200	117	50-200
Naphthalene-08	%	63	50-200	97	50~200	94	50-200	120	50-200
Acenaphthene-D10	[%	71	50-200	89	50-200	97	50-200	116	50-200
Phenanthrene-D10	/x	71	50-200	97	50-200	99	50-200	112	50-200
Chrysene-D12	1%	89	50-200	141	50-200	122	50-200	177	50-200
Perylene-D12	x	100	50-200	142	50-200	118	50-200	139	50-200
Nitrobenzene-D5	1%	120	30-127	101	30-127	77	30-127	58	30-127
2-Fluorobiphenyl	(%	73	36-138	87	36-138	88	36-138	75	36-138
p-Terphenyl-d14	1%	68	41-167	66	41-167	73	41-167	58	41-167
Phenol-D5	1%	63	34-120	62	34-120	70	34-120	55	34-120
2-Fluorophenol	[%	53 -	26-120	51	26-120	62	26-120	38	26-120
2,4,6-Tribromophenol	v	87	42-140	86	42-140	96	42-140	85	42-140

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-9 (4-8) A05-2260 03/09/2005	A5226003	GSB-9 (4-8) R A05-2260 03/09/2005	I A52260Q3RI				-
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	4200	ND	420	NA		NA	
Acenaphthylene	UG/KG	ND	4200	ND	420	NA NA	ł	NA NA	
Anthracene	UG/KG	NĐ	4200	ND	420	NA	İ	l NA	
Benzo(a)anthracene	UG/KG	ND .	4200	350 J	420	NA		NA NA	ļ
Benzo(b)fluoranthene	UG/KG	ND	4200	560	420	NA NA		NA NA	
Benzo(k)fluoranthene	UG/KG	ND	4200	630	420	NA NA	J	NA NA	
Benzo(ghi)perylene	UG/KG	ND	4200	ND	420	NA		NA NA	i
Benzo(a)pyrene	UG/KG	ND	4200	280 J	420	NA		NA NA	
Chrysene	UG/KG	ND	4200	360 J	420	NA		NA NA	ł
Dibenzo(a,h)anthracene	UG/KG	ND	4200	ND	420	NA .		, NA	
Fluoranthene	UG/KG	ND	4200	890	420	NA .		NA.	1
Fluorene	UG/KG	ND	4200	ND	420	NA NA		NA.	[
Indeno(1,2,3-cd)pyrene	lug/kg [ND	4200	ND	420	NA NA		NA NA	1
Z-Methylnaphthalene	UG/KG	ND	4200	690	420	NA		NA NA	•
Naphthalene	UG/KG	ND	4200	140 J	420	NA NA	}	NA.	
Phenanthrene	UG/KG	ND	4200	520	420	NA.		NA NA	
Pyrene	UG/KG	ND	4200	530	420	NA NA		NA NA	
IS/SURROGATE(S)=									
1,4-Dichlorobenzene-D4	X	83	50-200	122	50~200	Í NA		NA NA	(
Naphthalene-D8	%	90	50-200	118	50-200	NA		NA	ļ
Acenaphthene-D10]%	89	50-200	107	50-200	NA NA		NA	
henanthrene-D10	%	88	50-200	103	50~200	NA		NA	J
Chrysene-D12	%	116	50-200	158	50~200	NA.		NA.	
Perylene-D12	 %	116	50-200	181	50~200	NA NA		NA NA	ļ
Nitrobenzene-D5	1%	77	30-127	55	30~127	NA NA		NA NA	(
2-Fluorobipheny(x	94	36~138	68	36~138	NA	:	NA	ļ
o-Terphenyl-d14	1%	67	41-167	51	41~167	NA NA		NA.	ł
Phenol-D5	x	71	34-120	50	34~120	NA		NA	
2-Fluorophenol	x	61	26~120	37	26~120	NA		NA NA	1
2,4,6-Tribromophenol	l X	95	42~140	68	42-140	NA NA		NA NA	1

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA ~ METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		G\$B−1 A05−2260 03/11/2005	A5226011	GSB-3 A05-2260 03/11/2005	A5226012	GSB-5 A05-2260 03/11/2005	A5226010	GSB-6 A05-2260 03/11/2005	A5226009
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	12	3 J	10	5 J	11
Acenaphthylene	UG/L	ND	10	ND	12	ND	10	ND	11
Anthracene	UG/L	ND	10	ND	12	ND	10	NO	11
Benzo(a)anthracene	UG/L	ND	10	ND	12	ND	10	3 J	11
Benzo(b)fluoranthene	UG/L	ND	10	ND	1Z	ND	10	4 3] 11 `
Benzo(k)fluoranthene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(ghi)perylene	UG/L	ND	10	ND ND	12	ND	10	ND	11
Benzo(а)ругепе	UG/L	ND	10	NO	12	ND	10	ND] 11
Chrysene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Fluoranthene	UG/L	ND	10	ND	12	5 J	10	8 J	11
Fluorene	UG/L	ND	10	ND	12	2 J	10	3 J	1 11
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
2-Methylnaphthalene	UG/L	ND	10	ND	12	ND	10	7 J	1 11
Naphthalene	UG/L	ND	10	ND	12	ND	10	16	l 11
Phenanthrene	UG/L	ND	10	ND	12	5 J	10	6 J	11
Pyrene	UG/L	ND	10	ND	12	3 J	10	5 J	11
IS/SURROGATE(S)			<u> </u>						
1,4-Dichlorobenzene-D4	[%	89	50-200	88	50-200	84	50-200	86	50~200
Naphthalene-D8	%	95	50-200	96	50-200	90	50-200	90	50-200
Acenaphthene-010	x	92	50-200	99	50-200	92	50-200	92	50-200
Phenanthrene-D10	%	96	50-200	103	50-200	97	50-200	93	50-200
Chrysene-D12	x	136	50-200	144	50-200	130	50-200	130	50~200
Perylene-D12	\ x	119	50-200	119	50-200	115	50-Z00	114	50-200
Nitrobenzene-D5	%	86	34-121	74	34-121	91	34-121	82	34-121
2-Fluorobiphenyl	x	98	42-126	79	42-126	103	42-126	92	42-126
o-Terphenyl-d14	\%	55	36-145	42	36-145	68	36-145	53	36-145
Phenol-D5	x	32	10-110	33	10-110	29	10-110	31	10-110
2-Fluorophenol	1 %	46	14-120	46	14-120	43	14-120	43	14-120
2,4,6-Tribromophenol	1 2	104	42-158	92	42-158	115	42-158	104	42-158

Delta Environmental Consultants, Inc. Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-7 A05-2260 03/11/2005	A5226008						_
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA	1	NA	1
Acenaphthylene	UG/L	ND	10	NA		NΑ		NA NA	
Anthracene	UG/L	ND	10	NA		NA		NA NA	
Benzo(a)anthracene	υσ/∟	ND	10	NA		NA		NA NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA	1	NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA	1	NA		NA NA	
Benzo(ghi)perylene	U6/L	ND	10	NA]]	NA		NA NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA	ŀ	NA NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	NÐ	10	NA	1	NA		NA NA	ł
Fluorene	UG/L	ND	10	NA		NA		NA	ļ
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA	1	NA		NA	
Z-Methylnaphthalene	UG/L	2 J	10	NA	}	NA		NA NA	ļ
Naphthalene	UG/L	ND	10	NA		NA		NA NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	NO	10	NA	1	NA		NA	
====IS/SURROGATE(S)=====					 				
1.4-Dichlorobenzene-D4	/x (86	50~200	NA		NA		NA	
Naphthalene-D8	1%	91	50~200	NA		NA		NA	-
Acenaphthene-D10	*	92	50~200	NA	1	NA	}	NA	1
Phenanthrene-D10	%	95	50~200	NA		NA		NA	
Chrysene-D12	%	135	50~200	NA		NA		NA	1
Perylene-012	1%	113	50-200	NA	1	NA		NA NA	}
Nitrobenzene-D5	1%	69	34-121	NA		NA		NA	ļ
Z-fluorobiphenyl	×	74	42-126	NA		NA		NA NA	1
p-Terphenyl-d14	X	38	36-145	NA]	NA		NA NA	}
Phenol-D5	x	28	10-110	NA		NA	ĺ	NA NA	1
2-Fluorophenol	1%	41	14-120	NA .]	NA		NA NA	1
2,4,6-Tribromophenol	\ _x	83	42-158	NA	1	NA NA	ļ '	NA NA	l

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-10 (16-20) A05-2260 03/10/2005	A5226006	GSB-3 (16-20) A05-ZZ60 03/09/2005	A5226005	GSB-6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016 Rroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1250	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND ND NO NO	20 20 20 20 20 20 20 20	ND ND ND ND ND ND	20 20 20 20 20 20 20 20	ND ND ND 340 ND 220 ND	21 21 21 21 21 21 21	ND ND ND ND ND 420 ND	22 22 22 22 22 22 22 22
SURROGATE(S)————————————————————————————————————	X X	66 368 *	32-148 36-153	74 140	32-148 36-153	65 91	32-148 36-153	44 98	32-148 36-153

Client ID Job No Lab ID Sample Date	,	GSB-7 (12-16) A05-2260 O3/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1221	UG/KG	ND	21	ND ,	430	NA		NA	
Aroclor 1232	υG/KG	ND	21	ND	430	NA	1	NA	
Aroclor 1242	(UG/KG	ND	21	ND 1	430	NA	\ \ \	NA	1
Aroclor 1248	UG/KG	ND I	21	ND	430	NA		NA	ļ
Aroclor 1254	UG/KG	ND 1	21	3000	430	NA	1	NA	}
Aroclor 1260	UG/KG	ND	21	ND	430	NA		NA NA	
=====================================	7	151 * (32-148	OD	32-148	NA		NA.	
Decachlorobiphenyl	\\ \\ \\ \	0 *	36-153	O D	36-153	NA		NA	(

Delta Environmental Consultants, Inc.

Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab Sample Date) ID	GSB-1 A05-2260 03/11/2005	A5226011	6SB-5 A05-2260 03/11/2005	A5226010	GSB-7 A05-2260 03/11/2005	A5226008		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016 Aroclor 1221	ug/L ug/L	ND ND	0.48 0.48	ND ND	0.49 0.49	ND ND	0.50 0.50	NA NA	
Aroclor 1232 Aroclor 1242	UG/L UG/L	ND ND	0.48 0.48	ND ND	0.49	ND ND	0.50 0.50	NA NA	
Aroclor 1248 Aroclor 1254	UG/L UG/L	ND 0.32 J	0.48 0.48	ND ND	0.49	ND ND	0.50 0.50	NA NA	
Aroclor 1260 SURROGATE(S)	U6/L	ND	0.48	ND	0.49	ND	0.50	NA	
Tetrachloro-m-xylene Decachlorobiphenyl	[% %	68 37	36-132 28-132	78 54	36-132 28-132	64 189 *	36-132 28-132	NA NA	

Delta Environmental Consultants, Inc. Binghamton Project TOTAL RCRA METALS

Client ID Job No Lab II Sample Date)	GSB-1 (12-16) A05-2260 03/09/2005	A522600Z	GSB-10 (16-20 A05-2260 03/10/2005) A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005	GSB~6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	5.1	2.4	5.0	2.4	7.3	2.4	76.2	2.6
Barium - Total	MG/KG	148	0.61	140	0.60	332	0.61	304	0.65
Cadmium - Total	MG/KG	ND	0.24	ND	0.24	0,71	0,24	2.2	0.26
Chromium - Total	MG/KG	16.6	0.61	24,8	0.60	38.8	0.61	39.1	0.65
Lead - Total	MG/KG	208	1.2	233	1.2	1200	1.2	863	1.3
Hercury - Total	MG/KG	0.30	0.023	0.34	0.025	0,23	0.026	3.5	0.27
Selenium - Total	MG/KG	ND	4.9	ND	4.8	ND	4.9	68.8	5.2
Silver - Total	MG/KG	2.7	0.61	10.6	0.60	12.8	0.61	ND	0.65

Client ID Job No La Sample Date	b ID	GSB-7 (12-16) A05-2260 03/10/2005	A5ZZ6004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	4.6	2.4	7.9	2.6	NA		NA NA	
Barium - Total	MG/KG	57.1	0.61	529	0.65	NA	1	NA	Į.
Cadmium - Total	MG/KG	ND)	0.24	2.0	0.26	NA	1	NA	
Chromium - Total	MG/KG	17.8	0.61	25.9	0.65	NA	}	NA	1
Lead - Total	MG/KG	98.9	1.2	1110	1.3	NA		NA	
Mercury - Total	MG/KG	0.30	0.024	0.34	0.024	NA		NA	}
Selenium - Total	MG/KG	ND .	4.9	ND	5.2	NA	1	NA	
Silver - Total	(MG/KG	l ND l	0.61	28.5	0.65	NA	}	NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - RCRA METALS - W

Client ID Job No La Sample Date	āl da	GSB-1 A05-2260 03/11/2005	A5226011	GSB-5 A05-2260 03/11/2005	A5226010	GSB-7 A05-2260 03/11/2005	A5226008		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.14	0.010	ND	0.010	0.10	0.010	NA	
Barium ~ Total	MG/L	3.6	0.0020	0.17	0.0020	1.7	0.0020	NA	1
Cadmium - Total	MG/L	0.015	0.0010	ND	0.0010	0.0015	0.0010	NA	
Chromium - Total	/MG/L	0.21	0.0040	0.0088	0.0040	0.19	0.0040	NΑ	
ead - Total	MG/L	4.0	0.0050	0.030	0.0050	1.5	0.0050	NA	
iercury - Total	MG/L	0.050	0.0020	ND	0.00020	0.017	0.00020	NA	
elenium - Total	MG/L	ND	0.015	ND	0.015	ND	0.015	NA	
Silver ~ Total	MG/L	0.088	0.0030	ND	0.0030	0.0041	0.0030	NA	1

Batch Quality Control Data

Rept: AN1392

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39 Batch No: A5B03478

Lab Sample ID: A5226001	A5226001MS	A5226	001sp			. <u> </u>						
Analyte	Units of Measure	Sample		entration Spike Duplicate	Spike MS	Amount MSD	% MS	Recover MSD	Avg	% RPD	QC L: RPD	REC.
TOTAL RCRA METALS TOTAL MERCURY	mg/kg	3.47	4.21	4.43	0.404	0.439	184 *	220 *	202			80-120

Rept: AN139Z

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39

Batch No: A5B03347

Lab Sample ID: A5226008	A5226008MS	A52260	008\$b									
	Units of		Conc	entration	Spike	Amount	/ X F	Recover	ĭ	X	90.1	IMITS
Analyte	Measure	Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
DELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/ _, L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	
DELTA - TOTAL BARIUM - W	[MG/L	1.68	1.89	1.81	0.200	0.200	102	63 *	83	47 *	20.0	1
DELTA - TOTAL CADMIUM - ₩	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *		4	20.0	
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-120
DELTA - TOTAL LEAD - W	MG/L	1,52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0,159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-120
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-125
		ļ						-				(

Rept: AN139Z

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39 Batch No: A5B03478

Lab Sample ID: A5234301

A5234301MS

A5234301SD

	Units of		Concentration									IMITS
Analyte	Measure	Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS TOTAL MERCURY	mg/kg	0.0211	0.381	0.362	0.408	0.391	88	87	88	1	20.0	80-120

Chronology and QC Summary Package

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK82 A05-Z260	A5B0352902	VBLK83 A05-2260	А5В0352903	VBLK84 A05-2260	A5B0358702		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	ND	25	NA	
Benzene	UG/KG	ND	5	ND	5	ND	5	NA	
Promodichloromethane	Jug/kg J	ND	5	ND	5	ND	5	NA	
Bromoform	UG/KG	ND	5	ND	5	סא	5	NA	}
Bromome thane	UG/KG	1 J	5	ND	5	1 J	5	NA	
2-Butanone	lug/kg	ND	25	ND	25	ND	25	NA	}
Carbon Disulfide	UG/KG	ND	5	ND	5	ND] 5	NA	1
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	5	NA	
Chlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Chloroethane	ug/kg	ND	5	ND	5	ND	5	NA	
Chloroform	UG/KG	ND	5	ND	5	ND	5	NA.	1
ntorotorm Chloromethane	UG/KG	ND	5	ND	5	ND	5	NA.	
	UG/KG	ND ND	5	ND	5	ND	5	NA.	
yclohexane	UG/KG	ND ND	5	ND ND	5	ND ND	5	NA NA	1
,2-Dibromoethane	1 2 1				5	ND ND	5	NA NA	ì
ibromochloromethane	UG/KG	ND	5	ND	5		5		
,2-Dibromo-3-chloropropane	ug/Kg	ND	5 1	ND		ND	5	NA	ļ
,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	, - ,	NA	j
,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA]
I,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
pichlorodifluoromethane	UG/KG	ND	5]	ND	5	ND	5	NA	
,1-Dichloroethane	UG/KG	ND	5	ND	5	ND :	5	NA	
,2-Dichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
,1-Dichloroethene	UG/KG	ND	5 1	ND	5	ND	5	NA	
is-1,2-Dichloroethene	(UG/KG	ND	[5]	ND	5	ND) 5 }	NA	}
rans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	1
,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	5	NA	ļ
is-1,3-Dichloropropene	UG/KG	ND	5	МĎ	5	ND	5	NA	1
rans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	5	NA	1
thylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	1
?-Hexanone	UG/KG	ND	25	ND	25	ND	25	NA	
sopropylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	j
tethyl acetate	UG/KG	ND	5	ND	Š	ND	5	NA	
	UG/KG	ND	5	ND	Š	ND	5	NA	
Methylogolohexane	UG/KG	ND ND	5	ND ND	5	ND	5	NA	1
Methylene chloride	UG/KG	ND ND	25	ND ND	25	ND ND	25	NA.	1
-Methyl-2-pentanone	1	ND ND	5	ND ND	5	ND	5	NA.	
Methyl-t-Butyl Ether (MTBE)	UG/KG		5	ND	5	ND	5	NA.	
tyrene	UG/KG	ND	5	I ND	5	ND	5	NA.)
1,1,2,2-Tetrachloroethane	UG/KG	, ND	_		5	ND	, ś	NA	
Tetrachloroethene	UG/KG	ND	5	ND	1	ND	5	NA NA	ì
oluene	UG/KG	ND	5	ND	5		5	NA NA	
,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5 -	ND	5	NA NA	1
,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA NA	
,1,2-Trichloroethane	UG/KG	ND	5	Į ND	5	ND	,	144	

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 ~ TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK82 A05-2260	A580352902	VBLK83 A05-2260	A580352903	VBLK84 A05-2260	A5BQ3587Q2		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,Z,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND	5 5 5 10 15	ND NO ND ND	5 5 5 10 15	ND ND ND ND	5 5 5 10 15	NA NA NA NA	
IS/SURROGATE(S) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Foluene-D8 D-Bromofluorobenzene 1,2-Dichloroethane-D4		80 80 71 99 84 87	50-200 50-200 50-200 71-125 68-124 61-136	82 81 72 99 87 77	50-200 50-200 50-200 71-125 68-124 61-136	85 88 76 96 86 85	50-200 50-200 50-200 71-125 68-124 61-136	NA NA NA NA NA	

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: ANO326

VBLK75 Client ID A05-Z260 A5B0354702 Lab ID Job No Sample Date Sample Reporting Reporting Sample Reporting Reporting Samole Sample Limit Limit Value Limit Value Limit Value Analyte Units Value NA NA 5.0 NA VG/L ND Acetone NΑ NA 1.0 NA UG/L NĐ Benzene NA NΑ UG/L ND 1.0 NA Bromodichloromethane NA NA UG/L 1.0 NA Bromoform ND NA NA UG/L ND 1.0 NA Bromomethane NA 5.0 NΑ NΑ 2-Butanone UG/L ND 1.0 NA NA NA Carbon Disulfide UG/L ND NA NA Carbon Tetrachloride UG/L ND 1.0 NA UG/L ND 1.0 NA NA NA Chlorobenzene 1.0 NA NA NA Chloroethane UG/L ND NA UG/L 1.0 NΑ NΑ Chloroform ND UG/L ND 1.0 NA NΑ NA Chlorome thane NA 1.0 NA NA Cyclohexane UG/L ND 1.2-Dibromoethane ug/L ND 1.0 NA NA NA UG/L 1.0 NA NA NA ND Dibromochloromethane 1.2-Dibromo-3-chloropropane UG/L ND 1.0 NA NA NA 1.0 NA NA 1,2-Dichlorobenzene UG/L ND NA 1.3-Dichlorobenzene UG/L 1.0 NA NA NA ND 1.4-Dichlorobenzene UG/L ND 1.0 NA NΑ NA Dichlorodifluoromethane UG/L ND 1.0 NA NA NA 1,1-Dichloroethane UG/L ND 1.0 NA NA NA 1,2-Dichloroethane 1.0 NA NA UG/L NO NA 1.1-Dichloroethene UG/L ND 1.0 NA NA NA cis-1,2-pichloroethene UG/L 1.0 NA NA NA ND UG/L 1.0 NA NA NΑ trans-1,2-Dichloroethene ND NA UG/L 1.0 NA NA 1,2-Dichloropropane ΝĐ NA cis-1,3-Dichloropropene UG/L ND 1.0 ΝA NA UG/L 1.0 NA NA NA trans-1,3-Dichloropropene ND NΑ NA NA Ethylbenzene UG/L ND 1.0 5.0 NA NA NA 2-Hexanone UG/L NÞ UG/L 1.0 NA NΑ NA Isopropylbenzene ND NA NA 1.0 NA Methyl acetate UG/L ND NA UG/L ND 1.0 NA NΑ Methylcyclohexane NA 1.0 NA NA Methylene chloride UG/L ND NΑ NA UG/L ND 5.0 NΑ 4-Methyl-2-pentanone NA 1.0 NΑ NΑ UG/L Methyl-t-Butyl Ether (MTBE) ND NA NA 1.0 NΑ UG/L ND NA 1.0 NA NA 1,1,2,2-Tetrachloroethane UG/L ND NA NA NA UG/L 1.0 Tetrachloroethene ND NA NA 1.0 NA ug/t ND Toluene NA NΑ 1.0 NA UG/L ND 1,Z,4-Trichlorobenzene NA NA 1.0 NΑ UG/L ND 1,1,1-Trichloroethane NA NΑ 1.0 NΑ lug/L ND 1,1,2-Trichloroethane

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Delta Environmental Consultants, Inc. Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK75 A05-2260	A5B0354702						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
rrichloroethene /inyl chloride otal Xylenes	UG/L UG/L UG/L UG/L UG/L	ND ND ND ND ND	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA		NA NA NA NA	
IS/SURROGATE(S) hlorobenzene-D5 ,4-Difluorobenzene ,4-Dichlorobenzene-D4 oluene-D8 -Bromofluorobenzene ,2-Dichloroethane-D4	x x x x x	91 91 88 99 94 106	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		MSB8 3 A05~Z260	A5B0352901	MSB84 A05-2260	A5B0358701				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	1
Benzene	UG/KG	45	5	50	5	NA	}	NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	
3romoform	UG/KG	ND	5	ND '	5	NA NA]	NA	
Bromomethane	UG/KG	2 J	5	2 BJ	5	NA	Į	NA	
?-Butanone	UG/KG	ND	25	ND	25	NA		NA	
arbon Disulfide	UG/KG	ND	5	ND	5	NA	!	NA	
arbon Tetrachloride	UG/KG	ND	5	ND	5	NA]	NA	
Chlorobenzene	ug/kg	48	5	49	5	NA]	NA	1
Chloroethane	UG/KG	ND	5	ND	5	NA		NA	1
hlaraform	UG/KG	ND	5	ND ,	5	NA		NA	
hloromethane	UG/KG	ND	5	ND	5	NA		NA	1
Cyclohexane	UG/KG	ND	5	ND	5	NA]	NA	1
,2-Dibromoethane	UG/KG	ND	5	ND	5	NA		NA	-
ibromochloromethane	UG/KG	ND	5	ND	5	NA	[NA	[
,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA		NA	
,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA	1 1	NA	1
.4-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	•
ichlorodifluoromethane	UG/KG	ND	5	ND	5	NA		NA	
,1-Dichloroethane	UG/KG	ND	5	ND	5	NA	}	NA	}
,Z-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
,1-Dichloroethene	UG/KG	36	5	53	5	NA		NA	
is-1,2-Dichloroethene	UG/KG	ND	5	ND	. 5	NÄ		NA	
rans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA	[NA	1
1,2-Dichloropropane	UG/KG	ND	5	ND	5	· NA]	NA	1
:is-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA	ļ .	NA	1
rans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA NA		NA	1
thylbenzene	UG/KG	ND	5	ND	5	NA	<u> </u>	NA	1
?-Hexanone	UG/KG	ND	25	ND	25	NA]]	NA	1
Sopropylbenzene	UG/KG	ND	5	ND	5	NA	<u> </u>	NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA	[NA ·	1
Methylcyclohexane	UG/KG	ND !	5	ND	5	NA	[NA	}
Methylene chloride	UG/KG	ND	5	ND	5	NA	<u> </u>	NA	
-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA.		NA	1
ethyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	NO	5	NA]	NA	
Styrene	UG/KG	ND	5 .	ND ND	5	NA	1	NA	1
,1,2,2-Tetrachloroethane	UG/KG	ND	ĺ ś	ND	5	NA	l i	NA	}
retrachloroethene	UG/KG	ND	5	ND	5	NA NA	J .	NA	1
	UG/KG	48	5	49	5	NA	1	NA	
Toluene	UG/KG	ND	5	ND	5	NA	1	NA	
,2,4-Trichlorobenzene			5	ND ND	5	NA NA		NA	
,1,1-Trichloroethane	UG/KG	ND	5	ND ND	5	NA		NA	}
,1,2-Trichloroethane	UG/KG	ND	, ,	ן איי	,	\	1		<u> </u>

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		MSB83 A05-2260	A5B0352901	MSB84 A05-2260	A580358701				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor		ND	5	ND	5	NA	1	NA	
	UG/KG	ND	5	ND	5	NA	1	NA	1
,	UG/KG	44	5	49	5	NA		NA	}
	ug/kg	ND	10	ND	10	NA		NA	}
	ug/Kg	ND	15	ND	15	NA	1	NA	l
IS/SURROGATE(S)=		= 			 		 		 -
hlorobenzene-D5	7	87 8-	50-200	93	50-200	NA	1	NA	
,4-Difluorobenzene	*	87	50-200	93	50-200	NA	1	NA	J
,4-Dichlorobenzene-D4	X	77	50-200	86	50-200	NA		NA	
oluene-D8	X	97	71-125	93	71-125	NA]	NA	l
-Bromofluorobenzene	X	86	68-124	85	68-124	NA	[NA	[
,2-Dichloroethane-D4	%	87	61-136	86	61-136	NA	[NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Acetone Genzene Genzene Gromodichloromethane Gromodochloromethane Gromomethane Grom			Reporting Limit 5.0 1.0 1.0 1.0 5.0 1.0 1.0	Sample Value NA NA NA NA NA NA	Reporting Limit	Sample Value NA NA NA NA	Reporting Limit	Sample Value NA NA NA NA	Reporting Limit
Genzene Genzene Genzene Gromodichloromethane Gromodichloromethane Gromoform Gromomethane Gromome		10 10 10 3.1 51 3.6 10	1.0 1.0 1.0 1.0 5.0 1.0	NA NA NA NA NA NA		NA NA NA		NA NA	
Genzene Genzene Genzene Gromodichloromethane Gromodichloromethane Gromoform Gromomethane Gromome		10 10 10 3.1 51 3.6 10	1.0 1.0 1.0 5.0 1.0	NA NA NA NA NA	·	NA NA		NA	
Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Bromo		10 5.1 51 6 10 8	1.0 1.0 5.0 1.0	NA NA NA NA	·	NA			1
Bromoform UG/ Bromomethane UG/ Bromomethane UG/ Bromomethane UG/ Bromomethane UG/ Bromomethane UG/ Carbon Tetrachloride UG/ Carbon Tetrachloride UG/ Chlorobenzene UG/ Chloroform UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chloromethane UG/ Chlorobenzene UG/ Chlorodifluoromethane UG/ Chlorodifluoromethane UG/ Chloroethane UG/ Cis-1,2-Dichloroethene UG/ Cis-	L	5.1 51 5.6 10 5.8	1.0 5.0 1.0 1.0	NA NA NA			l	NA	
Promome thane Pr	L	5.1 51 5.6 10 5.8	5.0 1.0 1.0	NA NA		NA I			1
Z-Butanone Carbon Disulfide Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroform Chloromethane Chlorodifluoromethane Chlorodifluoromethane Chloroethane Chlor	L 6 L 5 L 6	51 10 1.8	5.0 1.0 1.0	NA	1	11/1	ì	NA	
Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane Chloromethane Cyclohexane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Cyclohexane Chloromethane Chloromethane Chloromethane Cyclohexane Chloromethane Cyclohexane Cyclo		6 10 8	1.0 1.0	NA	1 1	NA	J	NA	}
Carbon Tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane 1,2-Dibromoethane Chloromethane Chloromethane Chloromethane Cyclohexane Cycloh	L S L 8 L 8	10 .8 .9	1.0			NA		NA	
Chlorobenzene Chlorobenzene Chloroform Chloromethane Cyclohexane 1,2-Dibromoethane 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene	L 8 L 8 L 8	.8		NA	1	NA	ļ	NA	1
Chloroethane Chloroform Chloroform Chloromethane Cyclohexane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 06/ 1,4-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene	L 8	.9		NA NA		NA	Ì	NA	
Chloroform UG/ Chloromethane UG/ Cyclohexane U	L 8		1.0	NA	1	NA	1	NA	1
UG/ UG/	נ 8 נ 9	100 '	1.0	NA.		NA NA		NA	1
Tyclohexane 1,2-Dibromoethane 1,2-Dibromo-1-3-chloropropane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane	[L] 9	.3	1.0	NA		NA NA		NA	1
7,2-Dibromoethane 1,2-Dibromochloromethane 1,2-Dibromochloromethane 1,2-Dibromochloromethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane			1.0	NA NA	1	NA NA	ì	NA	1
Dibromochloromethane 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane		10	1.0	NA.	1	NA NA	1	NA	1
1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane		10	1.0	NA NA		NA.	i	NA	
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane	<u> </u>	10	1.0	NA ·		NA NA		NA	
,3-Dichlorobenzene ,4-Dichlorobenzene Dichlorodifluoromethane ,2-Dichloroethane ,1-Dichloroethane UG/ UG/ UG/ UG/ UG/ UG/ UG/ UG/ UG/ UG/		.8	1.0	NA NA		NA NA		NA	
1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropethene 1,2-Dichloropethene 1,2-Dichloropethene 1,2-Dichloropethene 1,2-Dichloropethene 1,2-Dichloropropane	- 1	2.8	1.0	NA	1	NA NA	{	NA	ł
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane UG/				NA NA	1	NA NA	-	NA	
1,1-Dichloroethane		-8	1.0		1			NA NA	
1,2-Dichloroethane UG/ 1,1-Dichloroethene UG/ cis-1,2-Dichloroethene UG/ trans-1,2-Dichloroethene UG/ 1,2-Dichloropropane UG/	- 1	10	1.0	NA NA		NA		NA NA	
1,1-Dichloroethene UG/ cis-1,2-Dichloroethene UG/ trans-1,2-Dichloroethene UG/ 1,2-Dichloropropane UG/		10	1.0	NA	[NA .			1
cis-1,2-Dichloroethene UG/ trans-1,2-Dichloroethene UG/ 1,2-Dichloropropane UG/		11	1.0	NA		NA		NA	
trans-1,2-Dichloroethene UG/ 1,2-Dichloropropane UG/		-9	1.0	NA	·	NA		NA	
1,2-Dichloropropane UG/	L	10	1.0	NA)	NA	Ì	NA	
		7-7	1.0	NA		NA	1	NA NA	
		10	1.0	NA	1	NA	Į	NA NA	
cis-1,3-Dichloropropene UG/	L	10	1.0	NA	1	NA	ĺ	NA 	
trans-1,3-Dichloropropene UG/		10	1.0	NA]	NA		NA NA	1
Ethylbenzene UG/		10	1.0	NA	1	NA	[NA	
2-Hexanone UG/		52	5.0	NA		NA		NA	
Isopropylbenzene UG/		10	1.0	NA	1	NA		NA NA	1
Methyl acetate UG/		5.4	1.0	NA	1	NA		NA	ļ
Methylcyclohexane UG/		9.9	1.0	NA	1	NA		NA	
Methylene chloride UG/		9.2	1.0	NA	1	NA		NA	1
4-Methyl-2-pentanone UG/		52	5.0	NA	[NA	[NA	
Methyl-t-Butyl Ether (MTBE) UG/		10	1.0	NA	1	ΝA]	NA]
Styrene UG/		10	1.0	NA		NA		NA	ļ
1,1,2,2-Tetrachloroethane UG/		9.8	1.0	NA]	NA		NA	1
Tetrachloroethene		10	1.0	NA		NA		NA	
TO EL GOLLEGO DE CLICATO		7.8	1.0	NA	1	NA	 •	NA NA	1
, • • • • • • • • • • • • • • • • • • •	_	10	1.0	NA		NA		NA	1
		10	1.0	NA NA	Į l	NA		NA	
1,1,1-Trichloroethane UG, 1,1,2-Trichloroethane UG,		9.8	1.0	NA	1	NA	1	NA NA	

Delta Environmental Consultants, Inc.

Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		MSB75 A05-2260	A5B0354701						, <u> </u>
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,Z-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L UG/L	8.4 9.6 9.9 9.1 30	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	
IS/SURROGATE(S)————————————————————————————————————	X	91 89 94 99 96 104	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc.

Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		TRIP BLANK A05-2260 03/11/2005	A5226013						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND ND	5.0	NA	1	NA	ļ.	NA NA	1
Benzene	UG/L	ND	1.0	NA		NA NA		NA	
Promodichloromethane	UG/L	ND	1.0	NA		NA NA		NA	1
romoform	υσ/∟	ND	1.0	NA		NA NA		NA	1
Fromome thane	UG/L	ND	1.0	NA		NA NA	1	NA	1
2-Butanone	ug/L	ND	5.0	NA		NA NA		NA	
arbon Disulfide	UG/L	ND	1.0	NA		NA NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA	1	NA NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA	1	NA NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA NA		NA	
Chloroform	UG/L	ND	1.0	NA	\	NA NA		NA	1
Chloromethane	UG/L	ND	1.0	ΝA		NA NA	1	NA	
Cyclohexane	UG/L	ND	1.0	NA	1	NA NA]	NA]
, 2-Dibromoethane	UG/L	ND	1.0	NA		NA NA	ļ	NA	
oibromochloromethane	UG/L	ND	1.0	NA	1	NA NA]	NA	
1.2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA	J	NA NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		. NA	ĺ	NA	1
1,4-Dichlorobenzene	UG/L	ND	1.0	NA.	· ·	NA NA		NA	
ichlorodifluoromethane	UG/L	ND	1.0	NA NA		NA NA	1	NA	
,1-Dichloroethane	UG/L	ND	1.0	NA.		NA.		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA NA	·	NA NA	}	NA	}
•	UG/L	ND ND	1.0	NA NA		NA NA		NA	
1,1-Dichloroethene	UG/L	ND ND	1.0	NA NA		NA NA	\ \	NA	į
is-1,2-Dichloroethene		**	1.0	NA NA		NA NA	1	NA NA	
trans-1,2-Dichloroethene	UG/L	ND ND	1.0	NA NA	ļ	NA NA)	NA.	
1,2-Dichloropropane	UG/L	ND	1.0	NA NA		NA NA		NA NA	1
cis-1,3-Dichloropropene	UG/L	ND ND	1.0	NA NA		NA NA		NA.	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA NA		NA NA		NA.	1
Ethylbenzene	UG/L	ND	· ·	NA NA		NA NA		NA NA	ĺ
2-Hexanone	UG/L	ND No	5.0	NA NA		NA NA		NA NA	(
Isopropylbenzene	UG/L	ND	1.0		1	NA NA		NA NA	1
Methyl acetate	υG/L	ND	1.0	NA NA		NA NA		NA NA	
Methylcyclohexane	uG/L	ND	1.0	NA NA		NA NA		NA NA	
Methylene chloride	(ug/L	ND	1.0	NA NA	1	NA NA	}	NA NA	1
4-Methyl-2-pentanone	UG/L	ND	5.0	NA NA		NA NA		NA.	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA NA	1	NA NA		NA NA	
Styrene	UG/L	Į ND	1.0	NA NA		NA NA	•	NA NA	l l
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA	}	1	1	NA.	J
Tetrachloroethene	UG/L	\ ND	1.0	NA	1	NA NA	•	NA NA	\
Toluene	UG/L	ND	1.0	NA		NA NA	1	NA NA	ł
1,2,4-Trichtorobenzene	UG/L	ND	1.0	NA		NA NA		NA NA	1
1,1,1-Trichtoroethane	UG/L	ND	1.0	NA NA		NA		NA NA	ļ
1,1,2-Trichloroethane	UG/L	ND	1.0	NA	1	₹ NA	(NA NA	\

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML ~ TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		TRIP BLANK A05-2260 03/11/2005	A5226013						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Trichloroethene Vinyl chloride	UG/L UG/L UG/L UG/L UG/L	ND ND ND ND ND	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA		NA NA NA NA	
IS/SURROGATE(S) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4		83 85 79 101 94 103	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	

Rept: ANO326

Date: 03/24/2005 Time: 16:19:39

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		SBLK A05-2260	A5B0334302						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	320	NA		NA NA		NA	
	UG/KG	ND	320	NA		NA NA		NA 	
Acenaphthylene	UG/KG	ND	320	NA NA		NA	, i	NA	
Anthracene Benzo(a)anthracene	UG/KG	ND	320	NA.	1	NA NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	320	NΑ		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	320	NA NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	320	NA		NA NA		NA	
	UG/KG	ND	320	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	320	NA NA		NA		NA	
Chrysene	UG/KG	ND	320	· NA		NA		NA	1
Dibenzo(a,h)anthracene	UG/KG	ND	320	NA.		NA NA		NA	
Fluoranthene	UG/KG	NO	320	NA.		NA NA		NA NA	į
Fluorene	UG/KG	ND	320	NA.		NA NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg	ND .	320	NA		NA NA	i	NA	
Z-Methylnaphthalene	ug/kg	ND ND	320	NA NA	}	NA NA	1	N.A	}
Naphthalene		ND	320	NA NA		NA NA		NA	
Phenanthrene	UG/KG	·	320	NA NA		NA NA		NA	İ
Pyrene	ug/kg	ND	320	11/4					
=====IS/SURROGATE(S)====		98	50-200	NA NA	1	NA NA	1	NA NA	ĺ
1,4-Dichlorobenzene-D4	%		50-200	NA NA	}	NA NA	Į.	NA NA	}
Naphthalene-D8	%	103	50-200	NA NA		NA NA		NA	
Acenaph thene-D10	%	104		NA NA		NA NA	j '	NA	i
Phenanthrene-D10	%	101	50-200		1	l NA	Ì	NA NA	
Chrysene-D12	%	116	50-200	NA NA		NA NA	ļ	NA	{
Perylene-D12) %	136	50-200	NA.		NA NA		NA NA	1
Nitrobenzene-D5	%	84	30-127	NA	1	NA NA	1	NA NA	1
2-Fluorobiphenyl	%	95	36-138	NA	l l	NA NA	1	NA NA	
p-Terphenyl-d14	76	86	41-167	NA NA				NA NA	
Phenol-D5	%	81	34-120	NA.	1	NA NA		NA NA	
2-Fluorophenol	%	74	26-120	NA	· k	NA NA		NA NA	
2.4.6-Tribromophenol	%	96	42-140	NA NA	Į] NA	ļ	, "	1

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA ~ METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		SBLK A05-2260	A5B0334503						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	1
Acenaphthylene	UG/L	ND	10	NA	(NA NA	1	NA NA	}
Anthracene	UG/L	ND	10	NA NA		NA NA	ł.	NA NA	
Benzo(a)anthracene	lug/L	ND	10	, NA	1	NA NA	1	NA NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA NA	{	NA	1	NA NA	1
Benzo(k)fluoranthene	UG/L	ND	10	NA.		NA		NA NA	ļ
Benzo(ghi)perylene	UG/L	ND	10	NA NA	<u> </u>	NA		NA NA	}
Benzo(a)pyrene	∫∪G/L	ND	10	NA NA	1	NA.	}) NA	1
Chrysene	UG/L	ND	10	NA NA		NA NA		NA NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA NA		NA		NA NA	
Fluoranthene	UG/L	ND	10	l NA	}	NA NA	Į.) NA	İ
Fluorene	UG/L	ФИ	10	NA.	ļ	NA NA		NA NA	
Indeno(1,2,3-cd)pyrene	ue/L	ND	10	NA.]	NA	1] NA	
2-Methylnaphthalene	∪G/L	. ND	10	NA NA		NA	ļ	NA	
Naphthalene	UG/L	ND	10	NA NA		NA		NA NA	ĺ
Phenanthrene	UG/L	ND	10	NA NA		NA		NA NA	
Pyrene	UG/L	ND	10	NA NA	}	NA NA		NA NA	
====IS/SURROGATE(S)=====				<u> </u>		<u> </u>	 		
1.4~Dichlorobenzene-D4	[%	84	50-200	[NA		NA	[NA NA	
Naphthalene-D8	\x	91	50-200	NA.		. NA		NA NA	
Acenaphthene-D10	x	92	50-200	NA.		NA	1	NA	
Phenanthrene-D10	x	96	50-200	NA NA		NA		NA NA	
Chrysene-012	x	129	50-200	NA NA		NA		NA NA	
Perylene-D12	\ x	109	50-200	NA .		NA	·	NA NA	
Nitrobenzene-05	l %	85	34-121	NA NA		NA	ł	NA.	<u> </u>
2-Fluorobiphenyl	1%	99	42-126	NA NA		NA		NA NA	!
p-Terphenyl-d14	×	86	36-145	NA.	[NA	1	NA NA	}
Phenol-D5	1%	29	10-110	NA NA		NA	ļ	NA NA	ļ
2-Fluorophenal	l x	42	14-120	NA.		NA		NA NA	1
2,4,6-Tribromophenol	1%	120	42-158	NA NA	ł	NA	}	NA NA	}

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-6 (4-8) A05-2260 03/10/2005	A5226001Ms	GSB-6 (4-8) A05-2260 03/10/2005	A5226001SD	Matrix Spike A05-2260	Blank A580334301		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	ug/Kg	3400	430	3300	430	2800	320	NA	
Acenaphthylene	UG/KG	270 J	430	240 J	430	ND	320	NA	
Anthracene	ug/kg	ND	430	ND	430	ND	320	NA	
Benzo(a)anthracene	UG/KG	400 J	430	370 J	430	ND	320	NA	
Benzo(b) fluoranthene	UG/KG	830	430	780	430	ND ND	320	NA	
Benzo(k)fluoranthene	UG/KG	940	430	880	430	ND	320	NA	1
Benzo(ghi)perylene	Jug/Kg	ND	430	ND ND	430	ND	320	NA	
Benzo(a)pyrene	UG/KG]	200 J	430	200 J	430	ND	320	NA	!
Chrysene	UG/KG	650	430	600	430	ND	320	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	430	ND	320	NA	1
Fluoranthene	UG/KG	1400	430	1500	430	ND	320	NA	1
Fluorene	UG/KG	570	430	520	430	ND	320	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	430	ND	320	NA	}
2-Methylnaphthalene	UG/KG	12000 E	430	11000 E	430	ND	320	NA	1
Naphthalene	UG/KG	3200	430	Z800 :	430	ND	320	NA	J
Phenanthrene	UG/KG	830	430	810	430	ND	320	NA	
Pyrene	UG/KG	3500	430	3200	430	2800	320	NA	
====1S/SURROGATE(S)====									
1,4-Dichlorobenzene-D4	1%	90	50-200	86	50-200	97	50-200	NA	
Naphthalene-D8	1%	93	50-200	88	50-200	103	50-200	NA	l
Acenaphthene-D10	x	102	50-200	97	50-200	105	50-200	NA	
Phenanthrene-D10	1%	105	50-200 {	101	50~200	102	50-200	NA	
Chrysene-D12	\% [155	50-200	164	50-200	114	50-200	NA	
Perylene-D12	%	153	50-200	136	50-200	136	50-200	NA	l I
Nitrobenzene-D5	1%	118	30-127	114	30-127	78	30-127	NA	}
2-fluorobiphenyl	\%	76	36-138	74	36-138	90	36-138	NA	ļ
p-Terpheny l-d14	1%	60	41-167	55	41-167	84	41-167	NA	
Phenol-D5	1%	64	34-120	59	34-120	75	34-120	NA	
Z-Fluorophenol	\%	55	26-120	51	26-120	69	26-120	NA	1
2,4,6-Tribromophenol	1%	83	42-140	79	42-140	96	42-140	· NA	ł

Delta Environmental Consultants, Inc. Binghamton Project

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		Matrix Spike & A05~2260	3 Lank A5B0334501	Matrix Spike A05-2260	8(k Dup A5B0334502	·			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	90	10	84	10	NA		NA	
Acenaphthylene	UG/L	ND	10	ND	10	NA NA	İ	NA	
Anthracene	Jug/L	ND	10	ND	10	NA		NA	
Benzo(a)anthracene	UG/L	ND	10	ND	10	NA .	}	NA	ļ
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	NA		NA	1
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	ND	10	NA j		NA	
Benzo(a)pyrene	UG/L	ND	10	ND	10	NA NA	ſ	NA	[
Chrysene	UG/L	ND	10	ND	10	NA .		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	NA		NA	
Fluoranthene	UG/L	ND	10	ND	10	NA I	1	NA	}
Fluorene	UG/L	ND	10	ND	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	NA ·		· NA	
Z-Methylnaphthalene	UG/L	ND	10	NO	10	NA .	}	NA	
Naphthalene	UG/L	ND	10	ND	10	NA		NA	
Phenanthrene	UG/L	ND .	10	ND	10	NA .		NA	
Pyrene	UG/L	86	10	84	10	NA ·		NA	1
IS/SURROGATE(S)									
1.4-Dichlorobenzene-D4	1%	82	50-200	83	50-200	NA .	· [NA	
Naphthalene-D8	1%	90	50-200	92	50-200	NA		NA	
Acenaphthene-D10	[%	95	50-200	96	50-200	NA NA		NA	1
Phenanthrene-D10	%	95	50-200	96	50-200	NA I		NA	
Chrysene-D12	%	123	50-200	129	50-200	NΑ		NA	1
Perylene-D12	\% \	102	50-200	108	50-200	NA }	1	NA	ļ
Nitrobenzene-D5	1%	90	34-121	80	34-121	NA .	ĺ	NA	(
2-Fluorobiphenyl	[%	99	42-126	90	42-126	NA		NA	
p-Terphenyl-d14	1%	79	36-145	78	36-145	NA		NA -	1
Phenol-D5	%	31	10-110	29	10-110	NA	·	NA	}
2-Fluorophenol	1%	44	14-120	41	14-120	NA	ļ	NA	
Z,4,6-Tribromophenol	[x]	116	42-158	111	42-158	NA Ì	1	NA	

Date: 03/24/2005

Time: 16:19:44

Delta Environmental Consultants, Inc. Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab Sample Date	ID	Method Blank A05-Z260	A5B0337302				į		3. 4. 5
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	1
Aroclor 1221	UG/KG	ND	16	NA NA]	NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA	1	NA	
Aroclor 1242	[UG/KG	ND	16	NA	1	NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA	ĺ	NA	
Aroclor 1254	UG/KG	ND	16	NA	1	NA]	NA	
Aroclor 1260	UG/KG	ND	16	NA NA	l	NA	Į į	NA	(
SURROGATE(S)		82	32-1/9		 	NA.	 	NA	
Fetrachloro-m-xylene Decachlorobiphenyl	(2	88	32-148 36-153	NA NA	1	na Na		NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		Method Blank A05-2260	A5B0337802						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclar 1016	UG/L	ND	0.50	NA		NA		NA NA	
Aroclor 1221	UG/L	ND	0.50	NA	i l	NA NA		NA NA	
Aroclor 1232	UG/L	ND	0.50	NA	1	NA NA		NA NA	J
Aroctor 1242	lue/L	ND	0.50	NA	i	NA NA		NA NA	Ì
Aroclor 1248	UG/L	ND	0.50	NA	1	NA		NA.	J
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA NA	
Aroclor 1260	UG/L	ND	0.50	NΑ	(NA NA		Į NA	Į.
SURROGATE(S)			 		 _				
Tetrachloro-m-xylene	%	70	36-132	NA	ĺ	NA		NA.	1
Pecachlorobiphenyl	/ %	68	28-132	NA		NA		NA NA	l

Delta Environmental Consultants, Inc.

Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab IB Sample Date		Matrix Spike A05-2260	8 lank A580337301						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA	1	, NA	1	NA NA	
Aroclor 1232	UG/KG	ND	16	NA	ĺ	NA	1	NA	1
Aroctor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA	1	NA	1	NA	}
Araclar 1254	UG/KG	160	16	NA	1	NA	1	NA	
Aroclor 1260	UG/KG	ND	16	NA	1	NA	1	NA	1
SURROGATE(S)			 		}		 		 -
[etrachloro-m-xylene	%	82	32-148	NA		NA	1	NA	
Decachlorobiphenyl	}% [84	36-153	NA		NA	1	NA	1

Delta Environmental Consultants, Inc. Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab I Sample Date	.D	Matrix Spike A05-2260	Blank A580337801						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
roclor 1016	UG/L	4.5	0.50	NA	}	NA NA	1	NA	1
roclor 1221	UG/L	ND	0.50	NA		NA		NA	
roctor 1232	UG/L	ND	0.50	NA		NA	1	NA	
roctor 1242	UG/L	ND	0.50	NA	1	NA	1	NA	1
roclor 1248	UG/L	ND	0.50	NA		NA .		NA	İ
roclor 1254	UG/L	ND	0.50	NA	1	NA		NA	
roctor 1260	UG/L	4.6	0.50	NA	ļ	NA	Į l	NA	J
SURROGATE(S)			 		 - 		 		T
etrachloro-m-xylene	7%	70	36-132	NA		NA		NA NA	
ecach lorobiphenyl	1%	69	28-132	NA	1 (NA	Į į	NA NA	}

Delta Environmental Consultants, Inc. Binghamton Project
TOTAL RCRA METALS

Client ID Job No Lab I Sample Date	D	Method Blank A05-2260	A5B0334602	Method Blank A05-2260	A5B0347802			·	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Selenium - Total	MG/KG	ND	4.0	NA		NA.	, ,	NA	1
Arsenic - Total	MG/KG	ND	Z.0	NA		NA	}	NA	{
Barium - Total	MG/KG	ND [0.50	NA	1	NA	}	NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA	}	NA	}	NA	1
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	1
Silver - Total	MG/KG	ND	0.50	NA	1	NA		NA	J
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	1

Delta Environmental Consultants, Inc. Binghamton Project DELTA - RCRA METALS - W

Rept: ANO326

Date: 03/24/2005 Time: 16:19:49

Client ID Job No Lab : Sample Date	I D	Method Blank A05-2260	A580334702	Method Blank A05-2260	A5B0339202				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	NA		NA NA		NA	
Cadmium - Total	MG/∟	ND	0.0010	NA .		NA NA		NA	
Barium - Total	MG/L	ND	0.0020	NA I		NA NA)	NA	
Chromium ~ Total	MG/L	ND	0.0040	NA I		NA NA	ļ	NA	
Lead - Total	MG/L	ND	0.0050	NA	i	NA]	NA	
Mercury - Total	MG/L	NA	'	ND	0.00020	NA		NA	•
Selenium - Total	MG/L	ND	0.015	NA		NA NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	

Date: 03/24/2005

Time: 16:19:49

Delta Environmental Consultants, Inc. Binghamton Project TOTAL RCRA METALS

Client ID Job No Lab Sample Date	ID	GSB-6 (4-8) A05-2260 03/10/2005	A5226001MS	GSB-6 (4-8) A05-2260 03/10/2005	A5226001sd	LCS A05-2260	A5B0347801	LCS CLP Soils A05-2260	A5B0334601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	53.0	2.6	70.2	2.6	NA NA]	276	2.0
Barium - Total	MG/KG	173	0.66	270	0.65	NA	1	268	0.50
Cadmium ~ Total	MG/KG	19.5	0.26	17.4	0.26	NA		83.1	0.20
hromium - Total	MG/KG	44.9	0.66	90.4	0.65	NA		95.5	0.50
ead - Total	MG/KG	577	1.3	1100	1.3	NA		98.2	1.0
ercury ~ Total	MG/KG	4.2	0.24	4.4	0.26	1.9	0.10	NA	1
elenium - Total	MG/KG	36.7	5.3	50.3	5,2	NA	[79.9	4.0
ilver - Total	MG/KG	5.1	0.66	4.7	0.65	NA		89.7	0.50

Delta Environmental Consultants, Inc. Binghamton Project DELTA - RCRA METALS - W

Client ID Job No Sample Date	Lab ID	GSB-7 A05-2260 03/11/2005	A5226008MS	GSB-7 A05-2260 03/11/2005	A5226008\$D	LCS A05-2260	A580339201	LFB A05-2260	A5B0334701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
rsenic - Total	MG/L	0.27	0.010	0.25	0.010	NA	•	0.21	0.010
arium - Total	MG/L	1.9	0.0020	1.8	0.0020	NA NA	1	0.20	0,0020
admium - Total	MG/L	0.15	0.0010	0.14	0.0010	NA		0.20	0,0010
hromium - Total	MG/L	0.35	0.0040	0.33	0.0040	NA	}	0.20	0,0040
ead - Total	MG/L	1.7	0.0050	1,6	0.0050	NA	1	0.21	0,0050
ercury - Total	MG/L	0.021	0.0010	0.021	0.0010	0.0035	0.00020	NA	1
elenium - Total	MG/L	0.16	0.015	0.15	0.015	NA NA		0.20	0.015
ilver - Total	MG/L	0.043	0.0030	0.042	0.0030	NA	1	0.050	0.0030

Client Sample ID: VBLK75

MSB75 A5B0354701

Lab Sample 1D: A5B0354702

		Concentr			
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8260/25 ML - TCL	VOLATILE				
1,1-Dichloroethene	UG/L	8.89	10.0	89	65-13
Trichloroethene	UG/L	9.92	10.0	99	71-12
Benzene	UG/L	10.0	10.0	100	67-12
Toluene	UG/L	9.77	10.0	98	71-12
Chlorobenzene	UG/L	9.81	10.0	98	74-12

MSB83 A5B0352901

:lient Sample ID: VBLK83 Lab Sample ID: A5B0352903

Analyte		Concenti			
	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC Limits
DELTA-METHOD 8260 - TCL VOLATILE ORGAN	IIC				
1,1-Dichloroethene	UG/KG	35.7	50.0	71	65-14
Trichloroethene	UG/KG	44.3	50.0	89	74-12
Benzene	UG/KG	44.6	50.0	89	74-12
Toluene	UG/KG	48.3	50.0	97	74-12
Chlorobenzene	UG/KG	48.1	50.0	96	76-124

Client Sample ID: VBLK84

Lab Sample ID: ASB0358702

MSB84 A5B0358701

		Concent			
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC					
1,1-Dichloroethene	UG/KG	53.4	50.0	107	65~146
Trichloroethene	UG/KG	48. <i>9</i>	50.0	98	74~12
Benzene	UG/KG	49.9	50.0	100	74~128
Toluene	UG/KG	49.4	50.0	99	74-123
Chlorobenzene	UG/KG	48.9	50.0	98	76~124

Date : 03/24/2005 16:19:59

SAMPLE DATE 03/10/2005

Rept: ANO364

lient Sample ID: GSB-6 (4-8)
Lab Sample ID: A5226001

GSB-6 (4-8) A5226001MS GSB-6 (4-8) A5226001SD

Lab Sample ID: ASE20001	2220001110	//JEEG										
			Conce	ntration		· - · · - · · · · · · · · · · · · · · · ·	X :	Recover	y İ			
	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike MS	Amount MSD	MS	MSD	Avg	X RPD	QC LI RPD	MITS REC.
710 0710 0710	ug/kg ug/kg	322 1200	3443 3530	3322 3233	4327 4327	4309 4309	72 54	70 47 *	71 51	3 14		49-131 48-154

Client Sample ID: SBLK

Matrix Spike Blank

Lab Sample ID: A5B0334302

	Units of	Concent Blank	ration Spike	% Recovery	QC
Analyte	Measure	Spike	Amount	Blank Spike	LIMITS
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM Acenaphthene Pyrene	UG/KG UG/KG	2754 2803	3277 3277	84 86	49~131 48~154

:lient Sample ID: SBLK

Matrix Spike Blank

Matrix Spike Blk Dup

Lab Sample ID: A5B0334503

A5B0334501 A5B0334502

		Concen	tration			*	Recove	У		[
Analyte	Units of Measure		Spike Blank Dup	Spike SB	Amount SBD	59	SBD	Avg	RPD	QC L. RPD	REC.
DELTA ~ METHOD 8270-HSL POLYNUCLEAR AROM Acenaphthene Pyrene	UG/L UG/L	90.3 86.5	84.0 84.5	100 100	100 100	90 86	84 84	87 85	7 2	23.0 25.0	46121 53142

Client Sample ID: Method Blank Lab Sample ID: A5B0337302

Matrix Spike Blank

Analyte	Units of Measure	Concenti Blank Spike	ation Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI Aroclor 1254	UG/KG	156	162	97	52-153

lient Sample ID: Method Blank

Matrix Spike Blank

Lab Sample ID: A5B0337802

		Concentra	1		
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI Aroclor 1260 Aroclor 1016	UG/L UG/L	4.59 4.49	5.00 5.00	92 90	50-122 29-123

Date : 03/24/2005 16:20:06

SAMPLE DATE 03/10/2005

Rept: ANO364

Client Sample ID: GSB-6 (4-8) Lab Sample ID: A5226001

GSB~6 (4-8) A5226001MS GSB-6 (4-8) A5226001SD

1 1	Concentration					% Recovery					
Units of		į.	1	Spike /	Amoun t	}]	[%	QC L	IMITS
Measure	Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
				<u> </u>				_			_
MG/KG	76.19	52.99	70.20	26.31	26.05	-88 *	-23 *	-56	117 *	20.0	80-1
MG/KG	304.Z	173.3	270.2	26.31	26.05	-498 *	-130 *	-314	117 *	20.0	80-1
MG/KG	2.19	19.49	17.36	26.31	26.05	66 *	58 *	62	13	20.0	80-1
1 - 1	39.13	44.90	90.41	26.31	26.05	22 *	197 *	110	160 *	20.0	80-1
1 '4	863.0	577.1	1105	26.31	26.05	-999 *	931 *	-34	2540 *	20.0	80-1
i ',		4.21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	80-17
1 2			50.26	26.31	26.05	-122 *	-71 *	-97	53 *	20.0	80-1
MG/KG	0.624	5.14	4.71	6.57	6.51	69 *	63 *	66	9	20.0	80-1
2	Measure MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Measure Sample MG/KG 76.19 MG/KG 304.2 MG/KG 2.19 MG/KG 39.13 MG/KG 863.0 MG/KG 3.47 MG/KG 68.78	Units of Measure Sample Matrix Spike MG/KG 76.19 52.99 MG/KG 304.2 173.3 MG/KG 2.19 19.49 MG/KG 39.13 44.90 MG/KG 863.0 577.1 MG/KG 3.47 4.21 MG/KG 68.78 36.67	Units of Measure Sample Matrix Spike Spike Duplicate MG/KG 76.19 52.99 70.20 MG/KG 304.2 173.3 270.2 MG/KG 2.19 19.49 17.36 MG/KG 39.13 44.90 90.41 MG/KG 863.0 577.1 1105 MG/KG 3.47 4.21 4.43 MG/KG 68.78 36.67 50.26	Units of Measure Sample Matrix Spike Spike Duplicate MS MG/KG 76.19 52.99 70.20 26.31 MG/KG 304.2 173.3 270.2 26.31 MG/KG 2.19 19.49 17.36 26.31 MG/KG 39.13 44.90 90.41 26.31 MG/KG 863.0 577.1 1105 26.31 MG/KG 3.47 4.21 4.43 0.404 MG/KG 68.78 36.67 50.26 26.31	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MG/KG 76.19 52.99 70.20 26.31 26.05 MG/KG 304.2 173.3 270.2 26.31 26.05 MG/KG 2.19 19.49 17.36 26.31 26.05 MG/KG 39.13 44.90 90.41 26.31 26.05 MG/KG 863.0 577.1 1105 26.31 26.05 MG/KG 3.47 4.21 4.43 0.404 0.439 MG/KG 68.78 36.67 50.26 26.31 26.05	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MSD MS MG/KG 76.19 52.99 70.20 26.31 26.05 -88 * MG/KG 304.2 173.3 270.2 26.31 26.05 -498 * MG/KG 2.19 19.49 17.36 26.31 26.05 66 * MG/KG 39.13 44.90 90.41 26.31 26.05 22 * MG/KG 863.0 577.1 1105 26.31 26.05 -999 * MG/KG 3.47 4.21 4.43 0.404 0.439 184 * MG/KG 68.78 36.67 50.26 26.31 26.05 -122 *	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MSD MSD MSD MSD MSD MSD MSD MSD	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MSD MSD AVG MG/KG 76.19 52.99 70.20 26.31 26.05 -88 * -23 * -56 MG/KG 304.2 173.3 270.2 26.31 26.05 -498 * -130 * -314 MG/KG 2.19 19.49 17.36 26.31 26.05 66 * 58 * 62 MG/KG 39.13 44.90 90.41 26.31 26.05 22 * 197 * 110 MG/KG 865.0 577.1 1105 26.31 26.05 -999 * 931 * -34 MG/KG 3.47 4.21 4.43 0.404 0.439 184 * 220 * 202 MG/KG 68.78 36.67 50.26 26.31 26.05 -122 * -71 * -97	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MSD MSD MSD Avg RPD MG/KG 76.19 52.99 70.20 26.31 26.05 -88 * -23 * -56 117 * MG/KG 304.2 173.3 270.2 26.31 26.05 -498 * -130 * -314 117 * MG/KG 2.19 19.49 17.36 26.31 26.05 66 * 58 * 62 13 MG/KG 39.13 44.90 90.41 26.31 26.05 22 * 197 * 110 160 * MG/KG 865.0 577.1 1105 26.31 26.05 -999 * 931 * -34 2540 * MG/KG 3.47 4.21 4.43 0.404 0.439 184 * 220 * 202 18 MG/KG 68.78 36.67 50.26 26.31 26.05 -122 * -71 * -97 53 *	Units of Measure Sample Matrix Spike Spike Duplicate MS MSD MSD MSD MSD Avg RPD RPD MG/KG 76.19 52.99 70.20 26.31 26.05 -88 * -23 * -56 117 * 20.0 MG/KG 304.2 173.3 270.2 26.31 26.05 -498 * -130 * -314 117 * 20.0 MG/KG 2.19 19.49 17.36 26.31 26.05 66 * 58 * 62 13 20.0 MG/KG 39.13 44.90 90.41 26.31 26.05 22 * 197 * 110 160 * 20.0 MG/KG 863.0 577.1 1105 26.31 26.05 -999 * 931 * -34 2540 * 20.0 MG/KG 3.47 4.21 4.43 0.404 0.439 184 * 220 * 202 18 20.0 MG/KG 68.78 36.67 50.26 26.31 26.05 -122 * -71 * -97 53 * 20.0

:lient Sample ID: GSB-7 Lab Sample ID: A5226008 GSB-7 A5226008MS GSB-7 A5226008\$D

Lab Sample 1D: A5226008	A5226008MS	A52260		entration			% R	Recovery	•	*	QC LI	IMITS
Analyte	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike Am	MSD MSD	MS	MSD	Avg	RPD	RPD	
DELTA - RCRA METALS - W DELTA - TOTAL ARSENIC - W DELTA - TOTAL BARIUM - W DELTA - TOTAL CADMIUM - W DELTA - TOTAL CHROMIUM - W DELTA - TOTAL LEAD - W DELTA - TOTAL MERCURY - W DELTA - TOTAL SELENIUM - W DELTA - TOTAL SILVER - W	MG/L MG/L MG/L MG/L MG/L MG/L MG/L	0.102 1.68 0.00150 0.190 1.52 0.0166 0.0133 0.00410	0.268 1.89 0.152 0.346 1.69 0.0210 0.159 0.0429	0.251 1.81 0.145 0.326 1.62 0.0212 0.153 0.0419	0.200 0.200 0.200 0.200 0.200 0.00666 0.200 0.0500	0.200 0.200 0.200 0.200 0.200 0.00666 0.200 0.0500	83 102 75 * 78 * 88 66 * 73 * 78	75 63 * 72 * 68 * 50 * 69 * 70 * 76	79 83 74 73 69 68 72 77	14 55 *	20.0 20.0 20.0 20.0 20.0	80-120 80-120 80-120

Client Sample ID: Method Blank Lab Sample ID: A5B0334602 LCS CLP Soils A5B0334601

		Concentration					
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS		
TOTAL RCRA METALS							
TOTAL ARSENIC	MG/KG	276.4	300.0	92	80-12		
TOTAL BARIUM	MG/KG	267.6	297.0	90	80-12		
TOTAL CADMIUM	MG/KG	83.13	93.70	89	80-12		
TOTAL CHROMIUM	MG/KG	95.46	105.0	91	80-12		
TOTAL LEAD	MG/KG	98.19	105.0	93	80-12		
TOTAL SELENIUM	MG/KG	79,89	82.80	96	80-12		
TOTAL SILVER	MG/KG	89.67	93.20	96	80-12		

:lient Sample ID; Method Blank Lab Sample ID: A5B0334702 LFB

			{		
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS ~ W				1	
DELTA - TOTAL ARSENIC - W	MG/L	0.211	0.200	106	80-120
DELTA - TOTAL BARIUM - W	MG/L	0.196	0.200	98	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.205	0.200	103	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.202	0.200	101	80-120
DELTA - TOTAL LEAD - W	MG/L	0.214	0.200	107	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.204	0.200	102	80-120
DELTA - TOTAL SILVER - W	MG/L	0.0500	0.0500	100	80-120

Date : 03/24/2005 16:20:06

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Client Sample ID: Method Blank

LCS

Lab Sample ID: A5B0339202

,		Concentra	tion		
Analyte	Units of Measure	Blank Spike	• .	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W DELTA - TOTAL MERCURY - W	MG/L	0.00350	0.00333	105	80-120

lient Sample ID: Method Blank

Lab Sample ID: A5B0347802

LCS

Analyte	Units of Measure	Concent Blank Spike	ration Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	1.94	1.80	108	80-120

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

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DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-10 (16~20)	GSB-3	GSB-3 (16-20)
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	AD5-2260 A5226006	A05-2260 A5226012	A05-2260 A5226005
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/16/2005 19:23 YES SOIL LOW 1.0 5.07 GRAMS 81.54	03/10/2005 17:00 03/12/2005 12:15 03/17/2005 18:14 - YES SOIL LOW 1.0 5.09 GRAMS 82.46	NA	03/09/2005 14:00 03/12/2005 12:15 03/17/2005 17:42 - YES SOIL LOW 1.0 5.13 GRAMS 81.02

Client Sample ID		GSB-1 (12-16)	GSB-10 (16-20)	GSB-3	GSB-3 (16-20)
Job No & Lab Sample ID		A05-2260 A5226002	A05-2260 A5226006	A05-2260 AS226012	A05-2260 A5226005
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:55 03/12/2005 12:15 03/17/2005 04:44 	NA	NA NA	03/11/2005 10:15 03/12/2005 12:15 03/17/2005 05:16 - YES WATER 1.0 0.025 LITERS	NA

DELTA ENVIRONMENTAL CONSULTANTS, INC.
SAMPLE CHRONOLOGY

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DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID		GSB-6	GSB-6 (4-8)	GSB-7	GSB-7 (12-16)
Job No & Lab Sample ID		A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226008	A05-2260 A5226004
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA.	03/10/2005 08:20 03/12/2005 12:15 03/16/2005 19:04 	NA	03/10/2005 15:00 03/12/2005 12:15 03/16/2005 23:35

* * * * * * * * * * * * * * * * * * * *	SSB-5	GSB-6	GSB-6 (4-8)	GSB-7	GSB-7 (12-16)
	S05-2260 A5226010	A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226008	A05-2260 A5226004
ample Date eceived Date xtraction Date nalysis Date xtraction HT Met? nalytical HT Met? ample Matrix ilution Factor ample wt/vol	03/11/2005 09:35 03/12/2005 12:15 03/17/2005 04:11 	03/11/2005 09:15 03/12/2005 12:15 03/17/2005 03:39 - YES WATER 1.0 0.025 LITERS	NA	03/11/2005 08:50 03/12/2005 12:15 03/17/2005 03:07 - YES WATER 1.0 0.025 LITERS	NA

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DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID		6SB-9 (4-8) A05-2260 A5226003		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA NA	03/09/2005 16:10 03/12/2005 12:15 03/16/2005 19:41 YES SOIL LOW 1.0 5.0 GRAMS 81.84		

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) AOS-2260 A5226003		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 08:25 03/12/2005 12:15 03/17/2005 02:35 - YES WATER 1.0 0.025 LITERS	NA		

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Client Sample ID Job No & Lab Sample ID			
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 03/12/2005 12:15 03/17/2005 05:49 		

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Time: 16:20:13

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID	MSB75	MSB83	MSB84	
Job No & Lab Sample ID	A05-2260 A580354701	A05-2260 A5B0352901	A05-2260 A5B0358701	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/16/2005 15:55 - - SOIL LOW 1.0 5.0 GRAMS 100.00	03/17/2005 15:33 SOIL LOW 1.0 5.0 GRAMS 100.00	

Client Sample ID Job No & Lab Sample ID	MSB75 A05-2260 A5B0354701	MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/17/2005 02:02 - - WATER 1.0 0.025 LITERS	NA	NA	

DELTA ENVIRONMENTAL CONSULTANTS, INC. QC SAMPLE CHRONOLOGY

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DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID	VBLK75	VBLK82	VBLK83	VBLK84	
Job No & Lab Sample ID	A05-2260 A5B0354702	A05-2260 A5B0352902	A05-2260 A5B0352903	A05-2260 A5B0358702	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/16/2005 16:31 - - - SOIL LOW 1.0 5.0 GRAMS 100.00	03/16/2005 16:13 SOIL LOW 1.0 5.0 GRAMS	03/17/2005 16:05 SOIL LOW 1.0 5.0 GRAMS 100.00	

Client Sample ID	VBLK75	VBLK82	VBLK83	VBLK84	
Job No & Lab Sample ID	A05-2260 A5B0354702	A05-2260 A580352902	A05-2260 A5B0352903	A05-2260 A5B0358702	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/17/2005 00:57 - - - WATER 1.0 0.025 LITERS	NA	NA	NA	

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID GSB-	-1	GSB-1 (12-16)	GSB-1 (12-16) RI	GSB-10 (16-20)	658-3
Job No & Lab Sample ID AO5-	-2260 A5226011	A05-2260 A5226002	A05-2260 A5226002RI	A05-2260 A5226006	A05-2260 A5226012
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:01 YES YES SOIL LOW 10.0 30.12 GRAMS 81.73	03/09/2005 12:40 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 11:37 YES YES SOIL LOW 5.0 30.12 GRAMS 81.73	03/10/2005 17:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 21:43 YES YES SOIL LOW 10.0 30.05 GRAMS 82.57	NA

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-1 (12-16) RI	GSB-10 (16-20)	GSB-3
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	AO5-2260 A5226002RI	A05-2260 A5226006	A05-2260 A5226012
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:55 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 00:40 YES YES WATER 1.0 0.95 LITERS	NA	NA NA	NA	03/11/2005 10:15 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 01:06 YES YES WATER 1.0 0.86 LITERS

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-3 (16-20)	GSB-5	GSB-6	6SB-6 (4-8)	GSB-6 (4-8) DL
Job No & Lab Sample ID	A05-2260 A5226005	A05-2260 A5226010	A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226001DL
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/09/2005 14:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 21:18 YES YES SOIL LOW 1.0 30.83 GRAMS 78.05	. NA	NA	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 18:45 YES YES SOIL LOW 1.0 30.22 GRAMS 75.86	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 13:43 YES YES YES SOIL LOW 5.0 30.22 GRAMS 75.86

Client Sample ID Job No & Lab Sample ID	GSB-3 (16-20)	GSB-5	GSB-6	GSB-6 (4-8)	GSB-6 (4-8) DL
	A05-2260 A5226005	A05-2260 A5226010	A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226001DL
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Jilution Factor Sample wt/vol	NA	03/11/2005 09:35 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 00:15 YES YES WATER 1.0 1.045 LITERS	03/11/2005 09:15 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 23:50 YES YES WATER 1.0 0.94 LITERS	NA	NA

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-7	GSB-7 (12-16)	GSB-7 (12-16) RI	GSB-9 (4-8)	GSB-9 (4-8) RI
Job No & Lab Sample ID	A05-ZZ60 A5ZZ6008	A05-2260 A5226004	A05-2260 A5226004RI	A05-2260 A5226003	A05-2260 A5226003RI
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/10/2005 15:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:52 YES YES YES SOIL LOW 10.0 30.3 GRAMS 78.41	03/10/2005 15:00 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 12:27 YES YES SOIL LOW 1.0 30.3 GRAMS 78.41	03/09/2005 16:10 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:27 YES YES SOIL LOW 10.0 30.2 GRAMS 77.23	03/09/2005 16:10 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 12:02 YES YES SOIL LOW 1.0 30.2 GRAMS 77.23

Client Sample ID		GSB-7 (12-16)	GSB-7 (12-16) RI	GSB-9 (4-8)	GSB-9 (4-8) RI
Job No & Lab Sample ID		A05-2260 A5226004	A05-2260 A5226004RI	A05-2260 A5226003	A05-2260 A5226003RI
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 08:50 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 23:24 YES YES WATER 1.0 1.0 LITERS	NA .	NA	NA	NA

DELTA ENVIRONMENTAL CONSULTANTS, INC.

QC SAMPLE CHRONOLOGY

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-6 (4-8)	GSB-6 (4-8)	Matrix Spike Blank	Matrix Spike Blank	Matrix Spike Blk Dup
Job No & Lab Sample ID	A05-2260 A5226001MS	A05-2260 A5226001SD	A05-2260 A5B0334301	A05-2260 A580334501	A05-2260 A5B0334502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 19:10 YES YES SOIL LOW 1.0 30.46 GRAMS 75.86	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 19:36 YES YES YES SOIL LOW 1.0 30.59 GRAMS 75.86	03/14/2005 07:00 03/15/2005 17:54 - - SOIL LOW 1.0 30.51 GRAMS 100.00	NA	NA

Client Sample ID	GSB-6 (4-8)	GSB-6 (4-8)	Matrix Spike Blank	Matrix Spike Blank	Matrix Spike Blk Dup
Job No & Lab Sample ID	A05-2260 A5226001MS	A05-2260 A5226001sd	A05-2260 A5B0334301	A05-2260 A5B0334501	AO5-2260 A5BO334502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	03/14/2005 07:00 03/15/2005 22:08 - - WATER 1.0 1.0 LITERS	03/14/2005 07:00 03/15/2005 22:34 - - WATER 1.0 1.0 LITERS

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID		SBLK A05-2260 A5B0334503		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/14/2005 07:00 03/15/2005 18:19 - SOIL LOW 1.0 30.68 GRAMS	NA		

Client Sample ID Job No & Lab Sample ID		SBLK A05-2260 A5B0334503		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/14/2005 07:00 03/15/2005 22:59 		

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

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DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-10 (16-20)	GSB-3 (16-20)	GSB-5
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226005	A05-2260 A5226010
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:00 YES YES SOIL LOW 1.0 30.87 GRAMS 81.73	03/10/2005 17:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 12:19 YES YES SOIL LOW 1.0 30.06 GRAMS 82.57	03/09/2005 14:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 12:00 YES YES SOIL LOW 1.0 30.28 GRAMS 78.05	NA

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-10 (16-20)	GSB-3 (16-20)	GSB-5
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226005	A05-2260 A5226010
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:55 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:40 YES YES WATER 1.0 1.05 LITERS	NA	NA	NA	03/11/2005 09:35 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:23 YES YES WATER 1.0 1.02 LITERS

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DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID		GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4~8) A05-2260 A5226003	
Sample Date Received Date Extraction Date Extraction Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/10/2005 08:20 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:41 YES YES SOIL LOW 1.0 30.16 GRAMS 75.86	NA	03/10/2005 15:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:40 YES YES SOIL LOW 1.0 30.23 GRAMS 78.41	03/09/2005 16:10 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:20 YES YES SOIL LOW 20.0 30.24 GRAMS 77.23	

DELTA - METHOD 8082 - POLYCHLORINATED SIPHENYLS

Client Sample ID Job No & Lab Sample ID		GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4~8) A05-2260 A5Z26003	
Sample Date Received Date Extraction Date Extraction Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol	NA	03/11/2005 08:50 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:05 YES YES YES WATER 1.0 1.0 LITERS	NA	NA	

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID		Matrix Spike Blank A05-2260 A5B0337801		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/15/2005 07:00 03/16/2005 10:01 SOIL LOW 1.0 30.85 GRAMS	NA		

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID		Matrix Spike Blank A05-2260 A5B0337801		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/15/2005 07:00 03/16/2005 09:29 - - - WATER 1.0 1.0 LITERS		

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2260 A5B0337302	Method Blank A05-2260 A5B0337802		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/15/2005 07:00 03/16/2005 10:21 - - SOIL LOW 1.0 30.79 GRAMS	NA		

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Method Blank Job No & Lab Sample ID A05-2260 A5B03	Method Blank 67302 A05-2260 A5B0337802	
ample Date cceived Date ktraction Date nalysis Date ktraction HT Met? nalytical HT Met? ample Matrix ilution Factor ample wt/vol Dry	03/15/2005 07:00 03/16/2005 09:47 	

Date: 03/24/2005 16:20:25 Jobno: A05-2260

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	тнт	Analysis Date	АНТ	Matrix
A5226011	GSB-1	MG/L	Arsenic - Total	6010		03/11/2005 09:55		NA .	NA	03/15 04:24		
MSEEGGTT		MG/L	Barium - Total	6010		03/11/2005 09:55		NA ·	NA	03/15 04:24		
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24		
	ļ	MG/L	Chromium - Total	6010		03/11/2005 09:55		NΑ	NA	03/15 04:24		
	}	MG/L	Lead - Total	6010		03/11/2005 09:55		NA	NΑ	03/15 04:24		
		MG/L	Mercury - Total	7470		03/11/2005 09:55		NA	NA	03/15 12:15		
		MG/L	Selenium - Total	6010		03/11/2005 09:55		NA	NA	03/15 04:24		
		MG/L	Silver - Total	6010	1	03/11/2005 09:55	l '. '	NA	NA	03/15 04:24		
A5226002	GSB-1 (12-16)	MG/KG	Arsenic - Total	6010		03/09/2005 12:40		NA	NA	03/15 05:07		
		MG/KG	Barium - Total	6010		03/09/2005 12:40		NA	NA	03/15 05:07		
	Ì	MG/KG	Cadmium - Total	6010		03/09/2005 12:40		NA		03/15 05:07		
		MG/KG	Chromium - Total	6010		03/09/2005 12:40		NA		03/15 05:07		
		MG/KG	Lead - Total	6010		03/09/2005 12:40		NA		03/15 05:07	4	
	1	MG/KG	Mercury - Total	7471	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/16 16:33	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
A5ZZ6006	GSB-10 (16-20)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
715220000		MG/KG	Barium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	; SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA NA	NA .	03/15 05:36	Yes	SOIL
	1	MG/KG	Chromium - Total	6010		03/10/2005 17:00		NA	NA	03/15 05:36	Yes	SOIL
	1	MG/KG	Lead - Total	6010		03/10/2005 17:00		NA		03/15 05:36		
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 17:00	03/12 12:15	NA	NA :	03/16 16:37	Yes	SOIL
	}	MG/KG	Selenium - Total	6010		03/10/2005 17:00		NA		03/15 05:36		
		MG/KG	Silver - Total	6010		03/10/2005 17:00		NA		03/15 05:36		
A5226005	GSB-3 (16-20)	MG/KG	Arsenic - Total	6010		03/09/2005 14:00		NA	NA	03/15 05:20	Yes	SOIL
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		MG/KG	Barium - Total	6010		03/09/2005 14:00		NA		03/15 05:20		
		MG/KG	Cadmium - Total	6010		03/09/2005 14:00		NA		03/15 05:20		
	}	MG/KG	Chromium - Total	6010		03/09/2005 14:00		NA NA	NA	03/15 05:20	Yes	SOIL
	1	MG/KG	Lead - Total	6010		03/09/2005 14:00		NA NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Mercury - Total	7471		03/09/2005 14:00		NA	NA	03/16 16:36	Yes	SOIL
	1	MG/KG	Selenium - Total	6010		03/09/2005 14:00		NA	NA	03/15 05:20	Yes	SOIL
i		MG/KG	Silver - Total	6010		03/09/2005 14:00		NA	NA	03/15 05:20		
A5226010	GSB-5	MG/L	Arsenic - Total	6010		03/11/2005 09:35		NA	NA	03/15 04:20	Yes	WATER
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	555 5	MG/L	Barium - Total	6010		03/11/2005 09:35		NA	NA	03/15 04:20	Yes	WATER
I		MG/L	Cadmium - Total	6010		03/11/2005 09:35		NA	NA	03/15 04:20		
I	1	MG/L	Chromium - Total	6010		03/11/2005 09:35		NA	NA	03/15 04:20	Yes	WATER
1	1	MG/L	Lead - Total	6010		03/11/2005 09:35	1 '.	NA NA	NA	03/15 04:20	γes	WATER
ı	4	MG/L	Mercury - Total	7470		03/11/2005 09:35		NA NA	NA	03/15 12:13	Yes	WATER
		MG/L		6010		03/11/2005 09:35	1 '.	NA	NA	03/15 04:20	Yes	WATER
I	<u> </u>	MG/L	Silver - Total	6010		03/11/2005 09:35		NA	NA	03/15 04:20	Yes	3 WATER
A E 2 2 4 0 0 4	cep_4 (/ 9)	MG/KG	Arsenic - Total	6010		03/10/2005 08:20	1	NA NA	NA	03/15 04:49		
A5226001	GSB-6 (4-8)	MG/KG	Barium - Total	6010		03/10/2005 08:20		NA	NA	03/15 04:49	Yes	SOIL
ĺ		MG/KG	Cadmium - Total	6010		03/10/2005 08:20		NA	NA	03/15 04:49	Yes	s SOILOC
i	1	MG/KG	Chromium - Total	6010		03/10/2005 08:20		NA	NA	03/15 04:49		
ĺ		MG/KG	Lead - Total	6010		03/10/2005 08:20			NA	03/15 04:49		
l	}	MG/KG	[Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA.	NΑ	03/16 16:28		
1		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/15 04:49		
1		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/15 04:49	? Ye:	s SOIL

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

Jobno: A05-2260

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	тнт	Analysis Date	АНТ	Matrix
A5226008	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
1	"		Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
i		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA		03/15 04:02		
		MG/L	Mercury - Total	7470	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:08	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA		03/15 04:02		
	ļ	MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA		03/15 04:02		
A5226004	GSB-7 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	1	03/15 05:15		
		MG/KG	9arium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA		03/15 05:15		
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA		03/15 05:15		
		MG/KG	Lead - Total	6010		03/10/2005 15:00		NA		03/15 05:15		1
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/16 16:35	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA :	03/15 05:15	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
A5226003	GSB-9 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA]NA	03/15 05:11	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA :	03/15 05:11	Yes	SOIL
		MG/KG	Lead - Total	6010	J 1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 16:10	03/12 12:15	NA		03/16 16:34		
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
	1	Mc/vc	Silver - Total	4010		02/00/2005 44.40		ALA.	lara 1	DZIAE DELAA	V	PATE

6010

03/15 05:11 Yes SOIL

NA

1.00 03/09/2005 16:10 03/12 12:15

NA

Rept: ANO369

MG/KG

Silver - Total

Date: 03/24/2005 16:20:25

Johno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.

QC CHRONOLOGY

Dilution Sample Receive TCLP Analysis THT AHT Matrix Lab ID Sample 1D Units Analyte Me thod Factor Date Date Date Date 03/15 04:58 Yes SOIL 1.00 03/10/2005 08:20 03/12 12:15 NA MG/KG 6010 A5226001MS GSB-6 (4-8) Arsenic - Total 03/15 04:58 Yes SOIL MG/KG 6010 1.00 03/10/2005 08:20 03/12 12:15 NA Barium - Total 1.00 03/10/2005 08:20 03/12 12:15 03/15 04:58 Yes SOIL MG/KG 6010 NA NA Cadmium - Total 1.00 03/10/2005 08:20 03/12 12:15 03/15 04:58 Yes SOIL MG/KG Chromium - Total 6010 NA NA 03/15 04:58 Yes SOIL 6010 1.00 03/10/2005 08:20 03/12 12:15 NA MG/KG Lead - Total NA 10.00 03/10/2005 08:20 03/12 12:15 03/16 16:30 Yes SOIL 7471 MG/KG Mercury - Total NA NA 1.00 03/10/2005 08:20 03/12 12:15 03/15 04:58 Yes SOIL MG/KG Selenium - Total 6010 NA 1.00 03/10/2005 08:20 03/12 12:15 03/15 04:58 Yes SOIL MG/KG Silver - Total 6010 NA MG/KG Arsenic - Total 6010 1.00 03/10/2005 08:20 03/12 12:15 NA NA 03/15 05:02 Yes SOIL A5226001SD GSB-6 (4-8) 03/15 05:02 Yes SOIL 1.00 03/10/2005 08:20 03/12 12:15 MG/KG Barium - Total 6010 NA MG/KG Cadmium - Total 6010 1.00 03/10/2005 08:20 03/12 12:15 NA 03/15 05:02 Yes SOIL 6010 1.00 03/10/2005 08:20 03/12 12:15 03/15 05:02 Yes SOIL MG/KG Chromium - Total NA MG/KG 6010 1.00 03/10/2005 08:20 03/12 12:15 03/15 05:02 Yes SOIL Lead - Total NA MG/KG Mercury - Total 7471 10.00 03/10/2005 08:20 03/12 12:15 03/16 16:31 Yes SOIL NA NA MG/KG Selenium - Total 6010 1.00 03/10/2005 08:20 03/12 12:15 03/15 05:02 Yes SOIL NA NA 1.00 03/10/2005 08:20 03/12 12:15 MG/KG Silver - Total 6010 03/15 05:02 Yes SOIL NA A5226008MS GSB-7 MG/L Arsenic - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 | 03/15 04:11 | Yes | WATER NA MG/L Barium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 NA NA 03/15 04:11 Yes WATER MG/L Cadmium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:11 Yes WATER NΑ 1.00 03/11/2005 08:50 03/12 12:15 MG/L Chromium - Total 6010 03/15 04:11 Yes WATER NA NA MG/L Lead - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 NA 03/15 04:11 Yes WATER MG/L Mercury - Total 7470 5.00 03/11/2005 08:50 03/12 12:15 03/15 12:10 Yes WATER NA MG/L Selenium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 NA NA 03/15 04:11 Yes WATER MG/L Silver - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:11 Yes WATER NA NA A5226008SD GSB-7 MG/L Arsenic - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 NA NA 03/15 04:15 Yes WATER MG/L Barium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:15 Yes WATER NA MG/L Cadmium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:15 Yes WATER NA NΑ MG/L Chromium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:15 Yes WATER NA NΑ MG/L Lead - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:15 Yes WATER NA 5.00 03/11/2005 08:50 03/12 12:15 MG/L Mercury - Total 7470 03/15 12:11 Yes WATER NA MG/L Selenium - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 NA 03/15 04:15 Yes WATER MG/L Silver - Total 6010 1.00 03/11/2005 08:50 03/12 12:15 03/15 04:15 Yes WATER NA A5B0334602 Method Blank MG/KG 03/15 04:40 Yes SOIL Arsenic - Total 6010 1.00 -12:15NA MG/KG Barium - Total 6010 1.00 - 12:15 NA 03/15 04:40 Yes SOIL MG/KG Cadmium - Total 6010 1.00 - 12:15 03/15 04:40 Yes SOIL NA Chromium - Total 6010 03/15 04:40 Yes SOIL MG/KG 1.00 - 12:15 NA NA MG/KG Lead - Total 6010 1,00 - 12:15 NA 03/15 04:40 Yes SOIL 6010 1.00 03/15 04:40 Yes SOIL MG/KG Selenium - Total - 12:15 NA 03/15 04:40 Yes SOIL Silver - Total 6010 1.00 - 12:15 NA MG/KG 03/15 03:53 Yes WATER A5B0334702 Method Blank 6010 1.00 - 12:15 MG/L Arsenic - Total NA 03/15 03:53 Yes WATER 6010 1.00 - 12:15 NA NA MG/L Barium - Total 03/15 03:53 Yes WATER - 12:15 NA 6010 1.00 NA Cadmium - Total MG/L 03/15 03:53 Yes WATEO 6010 1.00 - 12:15 NA NA MG/L Chromium - Total 03/15 03:53 Yes WATE 1.00 - 12:15 NA NA 6010 MG/L Lead - Total 03/15 03:53 Yes WATE NA 1.00 - 12:15 NA MG/L Selenium - Total 6010 03/15 03:53 Yes WATEN 6010 1.00 ~ 12:15 NA NA MG/L Silver - Total 03/15 12:25 Yes WATER - 12:15 NA NA 1.00 7470 A5B0339202 Method Blank MG/L Mercury - Total - 12:15 NA 03/16 17:00 Yes SOIL NA 7471 1.00 A5B0347802 Method Blank MG/KG Mercury - Total

Rept: ANO369

AHT = Analysis Holding Time Met THY = TCLP Holding Time Met

NA = Not Applicable

Date: 03/24/2005 16:20:25

DELTA ENVIRONMENTAL CONSULTANTS, INC.

QC CHRONOLOGY

Jobno: A05-2260

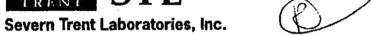
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		MG/KG	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
A5B0334701	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
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l		MG/L	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
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		MG/L	Silver - Total	6010	1.00	_	- 12:15	NA	1	03/15 03:58		

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Chain of Custody

Chain of Custody Record





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ATTACHMENT 4

BCP APPLICATION CONTACT LIST INFORMATION: ITEM 1 GOVERNMENT CONTACTS

CITY OF BINGHAMTON

City of Binghamton

City Hall

Binghamton, New York 13901

Contact: Mr. Richard A. Bucci (current mayor)

Phone: 607-772-7001

Email: mayor@cityofbinghamton.com

Roger Brooks, Chair Zoning Board, City of Binghamton Department of Planning, Housing and Community Development, City Hall, 4th Floor, Binghamton, NY 13901

BROOME COUNTY

Barbara Fiala
Broome County Executive
Broome County Office Building
44 Hawley Street, 6th Floor
Binghamton, NY 13902-1766

Phone: 607-778-2109

Email: bfiala@co.broome.ny.us

Broome County Planning and Economic Development Broome County Office Building 44 Hawley Street, 5th Floor PO Box 1766 Binghamton, NY 13902-1766

Phone: 607.778.2114 Fax: 607.778.6051

Rita Petkash, Commissioner rpetkash@co.broome.ny.usn

John F. Serino, Jr. Economic Development Director jserino@co.broome.ny.us

BCP APPLICATION CONTACT LIST INFORMATION: ITEM 2

SHOPPING CENTER AREA BINGHAMTON PLAZA

(Revised Date: 17 May 2005)

(Revised Date: 17 May 2	:005)
Retail Tenant Space No.	Leased Area (Sq.Ft.)
(1) Vacant	6,033
(1A) Bryant Heating	Approx. 2,000
(2) Vacant [Rear of store: Electrical Room]	4,525
(3) Vacant [Rear of store: Garage]	10,790
(4) Billiards	8,770
(5) N.Y. Chefs	2,300
(6) N.Y. Chefs	1,134
(7) Shoe Repair	469
(8) Vacant	560
(9) Nail Salon	1,864
(10) H & R Block	1,381
(11) Vacant	1,862
(12) Vacant [Rear of store: Electrical Room]	5,089
(13) Radio Shack	3,115
(14) Vacant	10,169
(15) Vacant	37,473
(16) Vacant	5,541
(17) Vacant	3,380
(17A) Vacant	3,672
(18) Vacant	12,383
(19) Vacant	2,673

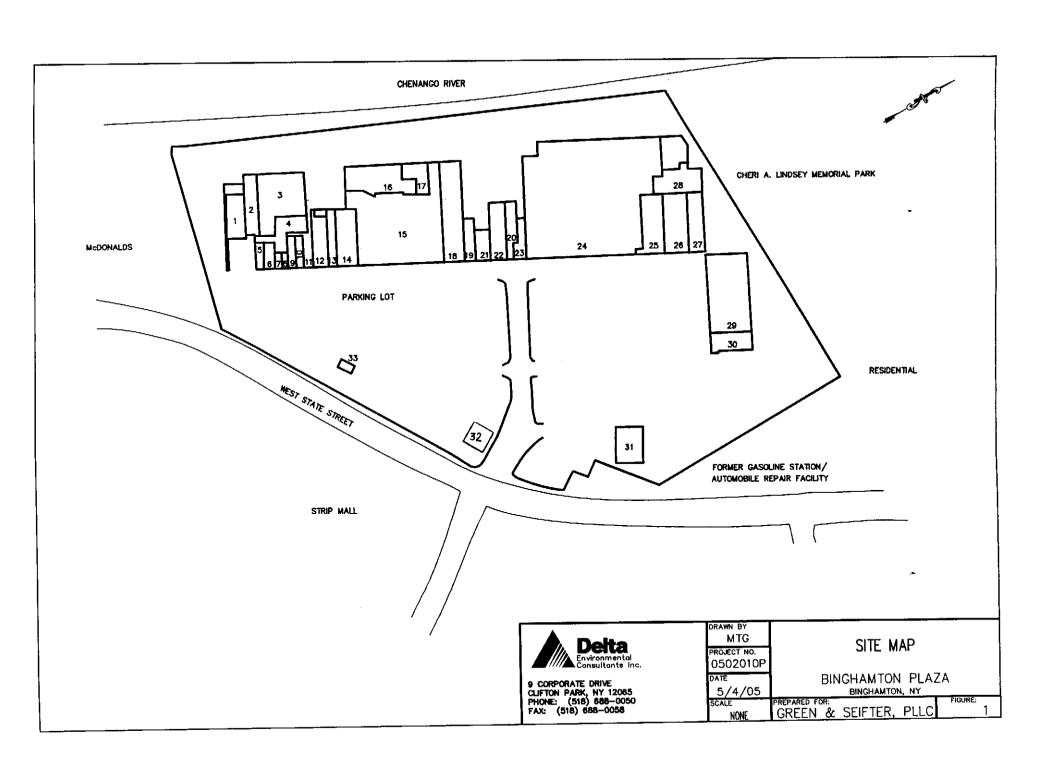
Page 1 of 2

SHOPPING CENTER AREA BINGHAMTON PLAZA

(Revised Date: 17 May 2005)

Retail Tenant Space No.	Leased Area (Sq.Ft.)
(20) Vacant	2,692
(21) Vacant	2,974
(22) Rent-A-Center [Rear of store: Elect	rical Room] 5,120
(23) Pet Supplies (Livingston)	2,943
(24) K-Mart [Rear of store: Electrical Ro	om] 90,290
(25) Fashion Bug	8,939
(26) Dollar Bazaar	9,390
(27) Vacant	4,500
(28) K-Mart (Storage) [Rear of store: Ele	ectrical Room] 4,239
(29) Furniture Shack [Rear of store: Ele	ctrical Room] *moving out June 1 19,767
(30) Vacant	3,631
(31) Future Faces Day Care	4,815
(32) Vacant	1,760
(33) M & T Bank	718
Fire Corridors	1,439
Mechanical Room #1	592
Mechanical Room #2	616
Theater Corridor	258
Note: A. Refer to plaza site plan for B. All leased areas taken from C. Note that spaces 29 and 3 second floor is office space.	n center of wall to center of wall. 30 are in Executive Building;

Page 2 of 2



BCP APPLICATION CONTACT LIST INFORMATION: ITEMS 3 - 7

LOCAL NEWS MEDIA

Binghamton Press & Sun Bulletin 4421 Vestal Parkway East Vestal, NY 13850 (607) 798-1234

PUBLIC WATER SUPPLIER

Binghamton Water & Sewer Service 25 Broome Street Binghamton, NY 13903 (607) 772-7210

PERSONS REQUESTING PLACEMENT ON THE CONTACT LIST

None

ADMINISTRATOR OF SCHOOL / DAY CARE ON OR NEAR THE SITE

Janean Pierce, Owner Future Faces Day Care 33 West State Street Binghamton, NY 13901 (607) 797-9880

LOCATION OF THE DOCUMENT REPOSITORY FOR THE PROJECT

Broome County Public Library 185 Court Street Binghamton, NY 13901 (607) 778-6400

ATTACHMENT 5

ATTACHMENT 5: CONTAMINANT INFORMATION

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the subject Site to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. Limited Site Investigation findings are summarized below. Complete results are presented in the Limited Site Investigation Report dated 30 March 2005 (BCP Application Attachment 3).

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples. Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards.

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These unfiltered water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

ATTACHMENT 6

BCP APPLICATION LAND USE FACTORS: ITEMS 10 - 15

FEDERAL, STATE OR LOCAL NATURAL RESOURCES

The subject Site is adjacent to the east bank of the Chenango River.

FLOOD PLAINS

According to a report issued by Environmental Data Resources, Inc., the site is located with the FEMA 500-year floodplain.

INSTITUTIONAL CONTROLS

None

REAL PROPERTY USE

The site is currently a distressed commercial property (shopping center with associated office space). Nearby properties are commercial, residential, and recreational. Please refer to Attachment 1 (Site Survey, Tax Map) and Attachment 4 (Tenant List, Adjacent Property Owner) for additional information.

VULNERABILITY OF GROUNDWATER / PROXIMITY TO WELLHEAD

According to Mr. Ron Brink of the Broome County Health Department, the Olmstead Well, operated by the City of Binghamton, is currently used as a backup drinking water supply (most of Binghamton's water supply comes from the Susquehanna River). Sampling is conducted annually: TCE and 1,1 DCA have been detected on occasion at concentrations below 1 part per billion (ppb). A model provided by Mr. Brink indicates that the capture zone of the Olmstead Well does not approach Binghamton Plaza due to the proximity of the well to the Chenango River. Mr. Brink indicated that the well is over 50 feet deep. A confirmation letter sent to Delta by Mr. Brink is provided in Attachment 2.

NYSDEC has stated that the subject Site is located within the boundary of a sole source aquifer (Clinton-Ballpark Aquifer).

GEOGRAPHY AND GEOLOGY

The site is located within the City of Binghamton in an area of mixed usage, including commercial, residential, and recreational. West State Street and a variety of commercial properties border the site to the east and south. Residential properties and the Cheri Lindsay Park (City of Binghamton) border the site to the northeast and north. The Chenango River borders the property to the west.

BCP Application Land Use Factors: Items 10-15 Page 2 of 2

The site is easily accessed due to its proximity to Interstate Highway 81, US Route 11, and State Route 17. Interstate 81 Exit 4 is located approximately one-half mile from the site.

Regionally, unconsolidated material underlying the Site and vicinity is mapped as outwash sand and gravel (Surficial Geology Map of New York, 1986). Underlying bedrock is mapped as Upper Devonian Sonyea Group Shale (Geologic Map of New York, 1970).

The subsurface materials beneath the Site generally consisted of four to eight feet of soil fill, primarily of brown sand and gravel with varying amounts of silt, overlying additional fill material associated with previous City of Binghamton landfilling activities. The fill material placed by the City is approximately four to twenty feet thick and generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. Ash deposits are reportedly associated with the City-operated incinerator that was located on a parcel immediately south of the site. The soil beneath the incinerator fill material consisted of native gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. Reportedly, sand and gravel underlies the sand and silt unit.

Recent site investigation activities indicate that the depth to water below the site is approximately 15 to 20 feet below grade. It is unclear if this water represents perched water overlying the sand and silt unit or true "groundwater" elevation. Groundwater flow at the Site is expected to be to the west – southwest.

ATTACHMENT 7

ATTACHMENT 7: SITE INVESTIGATION WORK PLAN

Please refer to Volume II for the complete Site Investigation Work Plan including the Field Activities and Analysis Plan (FAAP), Quality Assurance Project Plan (QAPP) and site-specific Health and Safety Plan (HASP).



BINGHAMTON PLAZA, INC.

VOLUME II

SITE INVESTIGATION WORK PLAN 33 WEST STATE STREET BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc. 30 Galesi Drive, Suite 301 Wayne, New Jersey 07470

Prepared by:

Delta Environmental Consultants, Inc. 104 Jamesville Road Syracuse, NY 13214

Delta Project No. 0504001P



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List of Attachments

Attachment 1: Support Documentation

Attachment 2: Field Activities and Analysis Plan Attachment 3: Quality Assurance Project Plan

Attachment 4: Health and Safety Plan

1.0 INTRODUCTION

This Work Plan has been prepared by Delta Environmental Consultants, Inc. (Delta) on behalf of Binghamton Plaza, Inc. (BPI) as the Volunteer under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The components of this Work Plan include:

- The overall goals of the project and implementation of the Work Plan (presented below in this Section);
- A description of the site, site history, previous investigative work conducted at the site, a presentation of the approach and implementation of various investigation methodologies proposed to meet the objectives of the site investigation, and a schedule for conducting the proposed investigative work and subsequent reporting (Sections 2.0 through 7.0 of this Work Plan);
- Support Documentation (presented as "Attachment 1" to this Work Plan);
- A Field Activities and Analysis Plan (FAAP) describing the procedures to be followed during all sample collection and handling tasks and other investigative tasks associated with this project (presented as "Attachment 2" to this Work Plan);
- A Quality Assurance Project Plan (QAPP) describing the field and laboratory
 quality assurance and quality control measures to be implemented during the
 project (presented as "Attachment 3" to this Work Plan); and,
- A Health & Safety Plan (HASP) describing the known chemicals of concern (COC) at the site, and the procedures to be followed in conducting the field operations (presented as "Attachment 4" to this Work Plan).

Consistent with NYSDEC's Draft DER-10 Technical Guidance for Site Investigation and Remediation, the overall goals of the site investigation as proposed in this Work Plan are as follows:

- (1) Delineate the horizontal and vertical extent of COCs identified at the site;
- (2) Establish the surface and subsurface setting at the site, including topography and hydrogeology;
- (3) Identify sources of COCs at the site, potential COC migration pathways, and potential receptors;
- (4) Evaluate the potential for off-site impacts as a result of COCs released from the site;
- (5) Determine if remediation at the site is necessary, and if so, evaluate potential remedial alternatives (RAs) including potential controlled discharge scenarios associated with the RAs, based on the results of the investigation and identified COCs, migration pathways, and potential exposure scenarios;
- (6) Evaluate the potential and actual health threats that may be present in association with the COCs present at the site; and
- (7) Provide sufficient data for a Fish and Wildlife Resource Impact Analysis, if necessary.

2.0 SITE LOCATION / PHYSICAL SETTING

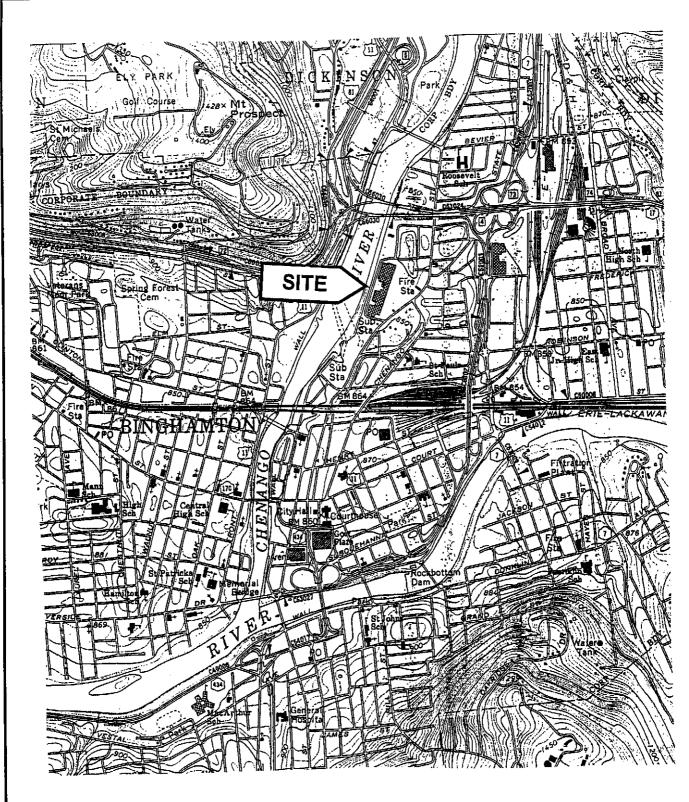
The subject site is located at 33 West State Street (NAD83, Latitude 042° 06' 39" N, Longitude 075° 54' 21" W), in the City of Binghamton, Broome County, New York (Figure 2-1). The site consists of approximately 24.29 acres of commercial property (Tax Map Nos. 1101048, 1101028, 1110101, 1101040, 1101041, 1110035, 1110050, and 1110102), and is owned by Binghamton Plaza, Inc. (BPI).

The site was occupied by several buildings at the time of this Work Plan (Figure 2-2), including:

- an approximately 259,175 square-foot one-story commercial strip mall building located on the western half of the property (Buildings "1" through "28");
- an approximately 46,000 square foot two-story retail/office building located off the northern end of the strip mall (Buildings "29" and "30"); and
- three satellite buildings situated in areas throughout the remainder of the eastern parking lot areas including a 4,815 square-foot commercial building (Building "31", occupied by a day care center), a 1,760 square-foot vacant commercial building (Building "32"), and a small (approximately 718 square feet) commercial building (Building "33", occupied by a bank).

All areas of the site not occupied by buildings are paved with asphalt parking areas or concrete walkways. There are no vegetated areas on site. Site topography is generally flat with gentle grades for storm water drainage, however there is a steep embankment along the entire western side of the site which leads down to the Chenango River. The change in elevation from the site down to the Chenango River varies, but ranges on the order of 15 to 20 feet.

The site is located within the City of Binghamton in an area of mixed usage, including commercial, residential, and recreational. West State Street and a variety of commercial properties border the site to the east and south. Residential properties and a memorial park border the site to the northeast and north. The Chenango River borders the property to the west.



USGS 7.5 minute Quadrangle: Binghamton West



104 Jamesville Road Syracuse, NY 13214 PH: 315-445-0224 FX: 315-445-0793 DRAWN BY SITE LOCATOR:
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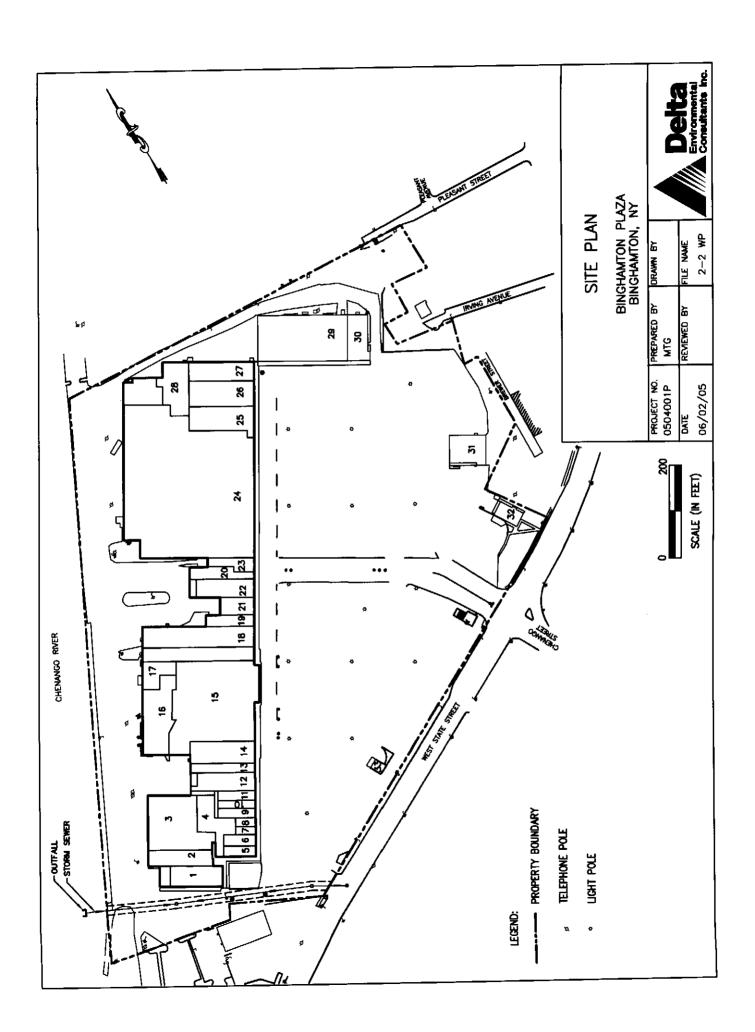
1"=2,000"

Site Location Map Binghamton Plaza 33 West State Street Binghamton, NY

Binghamton, N

Binghamton Piaza, Inc.

FIGURE:



3.0 SITE HISTORY AND PREVIOUS INVESTIGATIONS

3.1 SITE HISTORY

According to available information generated from Delta's January-May 2005 due-diligence work, the site was undeveloped in the early 1900s and was later used as a municipal "raw garbage" landfill by the City of Binghamton from 1946 until 1957. A municipal garbage incinerator was reportedly constructed by the City of Binghamton in 1957 south of the existing plaza and "behind" (west of) the existing McDonald's restaurant location. The ash from the incinerator was reportedly deposited at the site for the next several years until the early 1960s, at which time the use of the incinerator was discontinued. Thicknesses of the waste deposited at the site have been estimated to be on the order of 20 feet; however, slightly less than 20 feet of waste (approximately 10 to 18 feet) was reported in the north end of the site, and up to 35 feet of waste in the south end of the site.

Construction of the existing shopping plaza reportedly began in 1963. A review of available aerial photographs indicated that the plaza was present in 1967, with the plaza appearing in the 1967 photographs to be nearly the same as the existing plaza in 2005. The site was developed as a commercial strip mall and plaza and has been used as such since its construction in 1963.

Typical onsite tenants have included food establishments, service stores (salons, etc), large retail stores (Kmart) and various specialty retail stores (shoe stores, Radio Shack, etc.). Other tenants at the site have included a dry cleaner (Martin Brothers Cleaners and Dyers), an auto parts store (National Auto Stores) and a paint store (Sherwin Williams). The use of solvent-based materials has been documented at the site in association with the former dry cleaner (Martin Brothers). Although no longer present at the site, Martin Brothers was documented as a RCRA small quantity generator (SQG) of hazardous waste in 1986. The paint store and the auto parts store referenced above were also documented as SQGs at the site.

Neighboring properties to the site have included several fuel dispensing sites (i.e., gas stations), a dry cleaner, a park, residential areas, various commercial properties, and food establishments. Historical investigations at neighboring properties reported the presence of "significant contamination" in the soil and groundwater at the McDonald's property to the south currently occupied by McDonald's, and also beneath the Cheri Lindsey Park to the north (refer to Section 3.2 below for additional discussion regarding previous assessments and investigations). Reportedly, the entire Cheri Lindsey Park to the north is underlain by municipal landfill waste similar to the materials underlying the site.

According to available records at local Binghamton County Department of Health offices, an off-site well field situated north of the Cheri Lindsey Park (the "Olmstead Well Site") was nominated in conjunction with the plaza site as a "Hazardous Substance Disposal Site" in the early 1990s due to the detected presence of contaminants in samples collected from the well; however, the nomination was reportedly denied by NYSDEC. No evidence collected to date has indicated that the Olmstead Well Site or the site were included on the Hazardous Substance Site List. Further, a 19 May 2005 correspondence from the Broome County Department of Environmental Health Services indicated that the "capture zone" associated with drawdown during pumping operations of the Olmstead Well does not approach the Binghamton Plaza site; therefore, any contamination associated with the Olmstead Well is not likely from the Binghamton Plaza site.

3.2 PREVIOUS ASSESSMENTS AND INVESTIGATIONS

A summary of the previous investigations conducted at both the site and a neighboring property to the south (i.e., currently occupied by McDonald's), are described below in Sections 3.2.1 and 3.2.2. The two investigations described in those sections are the only complete environmental investigation reports that were available to Delta when this Work Plan was developed. Delta is aware of at least one other environmental investigation performed at a neighboring property (the Cheri Lindsey Park to the north), however, the full report was not available to Delta at the time of this investigation. Additional miscellaneous information pertinent to the investigation of the site was obtained from other sources as summarized below.

NYSDEC Region 7 Kirkwood Offices: An Army Corps of Engineers Flood Control project investigation report noted that the site is underlain by a relatively thin (i.e., less than five feet) silt and clay layer, followed by a thick sand and gravel unit.

Broome County Department of Health (BCDOH): A 19 May 2005 correspondence from the BCDOH provided information pertaining to a nearby (off-site) supply well (Olmstead Supply Well) owned by the City of Binghamton. The following pertinent information was drawn from that report:

- The Olmstead Supply Well (OSW) was drilled in 1965;
- The OSW is approximately 51 feet deep below ground surface (bgs), has 36 feet of casing, and is screened from approximately 36 to 51 feet bgs;
- Maximum yield of the OSW is 708 gallons per minute (gpm);
- Average well production from the OSW between May of 2004 and April 2005 has ranged from 2812 gallons per day (gpd) to 5437 gpd;
- Minor concentrations (i.e., less than one part per billion (ppb)) of trichloroethylene (TCE) and 1,1-dichloroethane (1,1-DCA) have been detected in samples collected from the well between 2000 and 2005;
- A capture zone map, in addition to information provided in the correspondence, indicates that most of the induced groundwater recharge for the OSW comes from the Susequehanna River.

Broome County Department of Health (BCDOH): Miscellaneous excerpts (boring location map, boring logs, etc) from a September 2003 report from O'Brien & Gere provided information regarding the neighboring Cheri Lindsey Park (C.L. Park) situated immediately to the north of the site. The report indicated that low concentrations of polychlorinated biphenyls (PCBs) and several other analytes were detected in soil samples from the C.L. Park. Elevated photoionization detector (PID) readings were recorded in one or more of the soil borings indicative of the presence of volatile organic compounds (VOCs). Soil boring logs indicated that varying amounts of fill and ash were

encountered beneath the C.L. Park, generally underlain and intermixed with silts, sand, and gravels.

3.2.1 Limited Site Investigation, Delta Environmental Consultants, Inc., March 2005

Delta performed a Limited Site Investigation at the Binghamton Plaza in March 2005, the results of which were presented in a report entitled *Limited Site Investigation Report*, *Binghamton Plaza, 30 March 2005.* A copy of the report is provided in Attachment 1 for reference. The following briefly summarizes the results of the investigation.

- The subsurface materials beneath the site generally consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt overlying solid waste landfill deposits including ash from the City of Binghamton incinerator formerly located south of the site. The landfill waste materials and ash deposits ranged from four to 20 or more feet in thickness and generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. The soil beneath the landfill waste consisted of native gray-brown to olive-brown sand and silt with varying amounts of clay and gravel.
- Visual observations, odors and field screening results indicated the presence of petroleum-impacted soils in four of the borings installed by Delta. These borings (GSB-1, GSB-3, GSB-6 and GSB-7) were located in the southwestern corner, east-central portion and northern portion of the property. The majority of petroleum impacts in soils were encountered in the dark-gray to black fill material between 8 feet and 20 feet below grade. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher readings (115-275 ppm) in boring GSB-3 in the east-central portion of the site.
- An accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site
 Investigation. Based on topography and proximity to the Chenango River, Delta

reported that groundwater was expected to flow to the west and/or southwest toward the river.

- Delta submitted six soil samples for laboratory analysis as part of their Limited Site Investigation. Analytical results for these samples showed that VOCs, PAHs and metals were detected in all six soil samples. One VOC (acetone) was detected in three of the soil samples at or above the NYSDEC soil cleanup objective. Numerous PAHs and metals were detected in one or more of the samples with a number of the reported concentrations exceeding the applicable NYSDEC soil cleanup objectives. PCBs were detected in three of the soil samples; however, all of the reported concentrations were below the applicable NYSDEC soil cleanup objective.
- Delta also submitted six groundwater samples, one from each of six temporary
 monitoring wells installed during their Limited Site Investigation, for laboratory
 analysis. Analytical results for these samples showed that VOCs were detected in
 each of the groundwater samples with the reported concentrations of some of these
 compounds exceeding their respective NYS Class GA groundwater standards in four
 of the six samples.
- Five of the six samples were analyzed for PAHs. Analytical results for these samples showed that one or more PAHs were reported in three of these five samples. The reported concentrations of some of these compounds exceeded their respective NYS Class GA guidance values in two of the five samples analyzed for PAHs. Three of the six samples were analyzed for PCBs and RCRA metals. PCBs were detected in one of the samples at a concentration exceeding the NYS Class GA groundwater standard. PCBs were not detected in the remaining samples. Metals were detected in all three groundwater samples with the concentrations of one or more of the metals in each sample exceeding their respective NYS Class GA groundwater standards (Note: Groundwater samples were sediment-laden; therefore, Delta believes that the detections of metals and PCBs in groundwater were the result of turbid samples).

3.2.2 Offsite Investigation: McDonald's Property (former Burger King), Limited Phase II Site Investigation

Whitestone Associates, Inc. (Whitestone) performed a Limited Phase II Site Investigation at the McDonald's restaurant (former Burger King) immediately south of the site in September 2002, the results of which were presented in a letter report entitled *Limited Phase II Site Investigation, Former Burger King Restaurant Site, 19 September 2002.* A copy of the report is provided in Attachment 1 for reference. The following briefly summarizes the results of the investigation.

- Whitestone installed nine soil borings to depths ranging from 12 to 20 feet below ground surface. Subsurface materials reportedly consisted of brown to gray sand, silt and clay fill soil overlying fill material associated with the former landfill and incinerator on the western portion of this property. The fill reportedly consisted of gravel, brick fragments, paper, ash, wood and glass and was 12 to 16 plus feet in thickness. Whitestone reported that native soil was not encountered during their investigation.
- Visual observations and odors indicated the presence of petroleum-impacted soils in four of the borings installed by Whitestone. These borings (B1, B3, B7 and B9) were located within the footprint of the existing McDonald's restaurant (B1 and B3) as well as in the eastern portion of this property near a former gas station and former junkyard previously located on this property. The majority of petroleum impacts in soils were encountered in the fill material between six and eight feet below grade. Elevated PID readings (i.e., greater than 10 ppm) were not reported by Whitestone.
- Whitestone submitted four soil samples for laboratory analysis as part of their
 Limited Phase II Site Investigation. Analytical results for these samples showed that
 VOCs, base neutral extractables (BNs) and metals were detected in all four soil
 samples. The concentrations of several BNs and/or metals were reported to have
 exceeded their respective NYSDEC TAGM Recommended Soil Cleanup Objectives
 in each of the samples. In addition, one or more VOCs, primarily BTEX compounds,

were also reported in concentrations exceeding their respective NYSDEC TAGM Recommended Soil Cleanup Objectives in two of the four samples.

Whitestone also submitted two groundwater samples collected during their Limited
 Phase II Site Investigation for VOC and BN analysis. Analytical results for these
 samples showed that numerous VOCs and BNs were detected in both samples. The
 concentrations for several of the VOCs and BNs reportedly exceeded their respective
 NYS groundwater standards.

4.0 SITE INVESTIGATION SCOPE OF WORK

This section describes the tasks that will be completed in areas of concern (AOC), and across the site as a whole during the Site Investigation. Detailed specifications, field procedures and methodologies associated with the various tasks are presented in the attached FAAP and QAPP (See Attachments 2 and 3, respectively).

4.1 SOIL INVESTIGATION

Site investigation activities conducted by Delta in March 2005 indicated that soils were impacted by SVOCs, various metals, PCBs, and to a lesser extent VOCs, throughout the majority of the site. Some of the VOC and SVOC compounds detected in soils were petroleum based and, in consideration of the sampling locations (i.e., along the property boundaries), may be associated with historical off-site sources immediately adjacent to the site (e.g., former filling stations). The remainder of the SVOCs, metals, and PCBs detected in soils appear to be more broadly related to the historical landfilling operations and ash disposal that took place at the site in association with the City of Binghamton's site operations in the 1940s through the early 1960s.

Not reflected in the March 2005 soil sample analytical results due to the nature and scope of the March 2005 sampling program, are the potential presence of chlorinated solvent VOCs (CVOCs) in the vicinity of the former dry cleaner (i.e., no soil samples were analyzed in the area of the site occupied by the former dry cleaner). However, March 2005 groundwater analyses indicated the presence of CVOCs in a groundwater sample collected from GSB-5 which was located in the immediate vicinity of the former dry cleaner location on-site and hydraulically downgradient (estimated) from the former dry cleaner location.

Therefore, to better characterize the nature and extent of the wastes disposed at the site in association with the landfilling operations, and to specifically address potential concerns associated with soil quality in the vicinity of the former dry cleaner location, a site wide soil boring program is proposed. The boring locations, including the borings to be

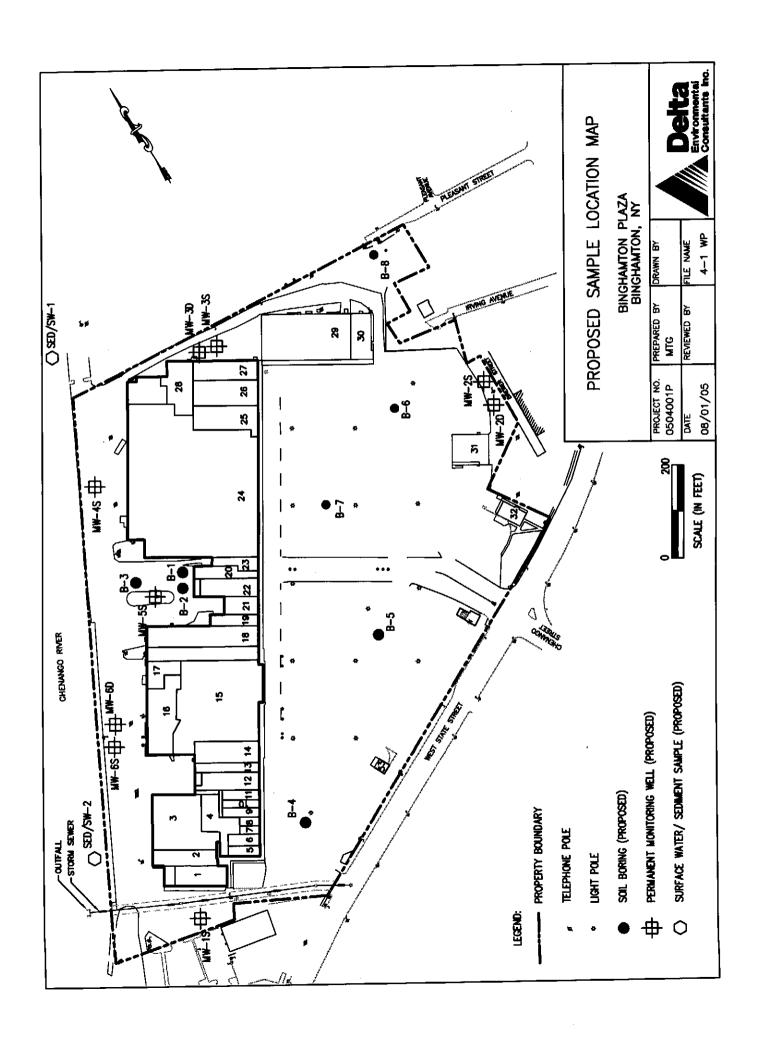
converted into groundwater monitoring wells as discussed in Section 4.2, are proposed in large part based on spatial site coverage; however, a higher density of soil boring locations are proposed in the immediate vicinity of the former dry cleaner location. To summarize, the overall goals of the soil boring program are:

- (1) Establish the geologic setting beneath the site, extending into the natural overburden soils beneath the historic landfill waste deposits;
- (2) Establish the general nature and quality of the landfill waste deposits beneath the site, and their potential to provide continuing exposure pathways through contribution of COCs to groundwater and/or direct exposure scenarios, and;
- (3) Assess the potential for specific source areas not necessarily attributable to the historic landfill operations at the site (e.g., potential releases at the former dry cleaner location).

The following section provides additional details on the number of soil borings proposed, their locations, and the techniques used to complete the soil borings.

4.1.1 Soil Boring Installations

A total of 17 soil borings will be advanced across the site as part of this Site Investigation. These borings will be installed to evaluate the nature and extent of historical landfilling operations at the site and the presence of a source area of CVOCs associated with the former onsite dry cleaner as well as to evaluate any potential offsite sources of COCs migrating onto the site. Eight of these soil borings (B-1 to B-8) will be advanced across the site for subsurface soil sample collection purposes using a combination of "direct-push" soil sampling techniques and hollow stem auger drilling techniques (Figure 4-1). Soil cores will be collected continuously from grade to the maximum depth of each boring. The remaining nine soil borings will also be advanced for soil sample collection purposes and will be converted into groundwater monitoring wells (Figure 4-1). These nine borings along with the associated drilling techniques and sampling procedures are further described in Section 4.2.



Based on the March 2005 site investigation work completed by Delta, it is estimated that the maximum depth of the soil borings necessary to accomplish the objectives of the site investigation will range from approximately 20 to 25 feet. The primary criteria for terminating each soil boring will be the depth at which a prescribed natural undisturbed layer, hereinafter referred to as the "silt" layer, is encountered immediately beneath the landfill wastes. The silt layer was identified in Delta's 30 March 2005 Limited Site Investigation Report generally as an undisturbed natural gray-brown to olive brown sand and silt with varying amounts of clay and gravel.

This layer was further documented in a 1948 Army Corp of Engineers Flood Control Project report, and is estimated to be on the order of five feet thick, underlying the majority of the site, and situated immediately below the historical landfill waste deposits. Underlying the silt layer is estimated to be relatively thick sequences of sand and gravel. For clear identification, the silt layer is represented by the following sampling intervals recovered during Delta's March 2005 limited site investigation (refer to Attachment 1 for a copy of Delta's 30 March 2005 Limited Site Investigation Report): GSB-2 (18'-20'); GSB-3 (20'-24'); GSB-6 (17'-20'); GSB-9 (16'-20'), and; GSB-10 (19'-24').

Observations recorded during Delta's March 2005 site investigation work indicated that the silt layer varies in consistency across the site (i.e., the sand, silt and clay contents may vary significantly); however, where the silt layer contains higher portions of silt and clay and lesser amounts of sand and gravel, the silt layer may be hydraulically vertically restrictive, and as such may inhibit contaminant migration where contaminants of concern (COCs) are present. Additionally, Delta's March 2005 observations indicated the general absence of obvious signs of COCs (i.e., no staining, odors, etc) upon penetrating the natural undisturbed silt layer.

Therefore, the objective of each soil boring will be to fully penetrate the historical waste deposits, and continue into the natural silt layer until evidence of any COCs is diminished such that samples may be collected both within the fill materials, and also below the fill materials, providing both waste characterization analyses and also providing sample

analyses of the unaffected natural soils underlying the wastes for vertical delineation of the COCs.

As previously stated, the silt layer has the potential to be vertically restrictive. Therefore, care will be taken during the implementation of the soil boring program to avoid penetrating the silt layer whenever possible where is it estimated that the lithology of the natural soils may be restrictive (i.e., where the layer is comprised in majority of silt and clay).

A summary of soil boring locations is presented below and a summary of the soil borings to be converted into groundwater monitoring wells is provided in Section 4.2.1. (Note: locations of soil borings and/or groundwater monitoring wells may be adjusted in the field due to access considerations).

- B-1 through B-3: These soil borings will be located within the immediate vicinity of
 the former dry cleaner location to determine if there is a source of residual CVOC
 impacts to soils in this area of concern. The objective of these borings is to assess for
 the potential presence of a residual CVOC source area primarily in the vadose zone in
 the immediate vicinity of the former dry cleaner.
- B-4 through B-8: These soil borings will be located throughout the site to evaluate the nature and extent of the historical landfill wastes at the site, and provide horizontal and vertical delineation of COCs that may be associated with the landfill wastes. The locations of B-4 through B-8, in conjunction with the proposed groundwater monitoring wells (Section 4.2), are based on spatial coverage of the site, and not necessarily in association with any specific area of concern. Should field observations reveal subsurface conditions in any one particular area which justify an increased level of attention, one or more of these boring locations may adjusted accordingly.

4.1.2 Soil Sampling

Soil sample collection for laboratory analysis will be based on visual observations, odors, and PID screening data during the drilling activities. The following provides a description of the soil samples to be collected during the Site Investigation.

- Borings B-1 through B-3: One "worst-case" soil sample will be collected from each boring based on field observations to evaluate the potential presence of a CVOC source area associated with the former onsite dry cleaner;
- Borings B-4 through B-8: Maximum of three "worst-case" soil samples to evaluate the nature and extent of historic onsite landfilling operations; and
- Soil borings to be converted to Groundwater Monitoring Wells (MW-1S, MW-2D, MW-3D, MW-4S and MW-6D (Section 4.2): Maximum of three "worst-case" soil samples to further evaluate the nature and extent of historic onsite landfilling operations. Note that soil samples for laboratory analysis will not be collected from monitoring well MW-5S due to the close proximity of soil borings B-1 through B-3.

In addition to the nine soil samples discussed above, up to three deep soil samples will be collected from the natural soils underlying the historical waste deposits to provide vertical delineation of the COCs from the waste materials, making a total of approximately 12 soil samples proposed for analysis.

The three soil samples from borings B-1 through B-3 will be analyzed for VOCs only (USEPA Method 8260). The remaining nine soil samples (i.e., collected from borings B-4 through B-8, the soil borings to be converted into groundwater monitoring wells and the deep soil samples) will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), PCBs (USEPA Method 8082), and metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), by a NYSDOH ELAP-certified laboratory that participates in the Contract Laboratory Program (CLP). Laboratory analytical procedures will adhere to NYS Analytical Services Protocol (ASP) 2000 methodologies and protocols.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank and sample duplicate will also be collected per the requirements specified in the QAPP (Attachment 3). QA/QC samples will be collected at the rate of one per sample delivery group (SDG). Under no circumstances will a SDG exceed 20 samples including the QA/QC samples. The analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a Data Usability Summary Report (DUSR) will be prepared.

4.2 HYDROGEOLOGIC INVESTIGATION

Site investigation activities conducted by Delta in March 2005 indicated that groundwater was impacted by VOCs, SVOCs, PCBs, and metals. However, PCB and metal results are questionable due to the turbid nature of the samples, which were collected from temporary well points. The groundwater impacts are suspected to be attributable to historic landfill materials beneath the site, potential releases from the former dry cleaner location on-site, and on-site migration of COCs from off-site sources. Therefore, a site-wide hydrogeologic investigation is proposed in order to characterize the groundwater system and to determine the nature and extent of affected groundwater at the site. The goals of the groundwater investigation will be as follows:

- (1) Establish the hydrogeologic setting beneath the site within the unconsolidated fill materials and the underlying natural soils, including horizontal and vertical gradients, identify any vertically restrictive units that may exist, and determining hydraulic conductivities of the various geologic units to the extent practicable;
- (2) Establish "shallow" overburden groundwater quality beneath the site (i.e., first groundwater encountered, estimated to be within, or at the bottom of, the historic landfill materials at the site);
- (3) Establish "deep" groundwater quality at the site (i.e., groundwater bearing zones within the natural undisturbed gravel unit situated beneath the silt layer and the historic landfill wastes);

- (4) Assess for potential upgradient and/or adjacent sources (i.e., former filling stations) impacting the groundwater quality beneath the site through establishment of upgradient and/or adjacent groundwater quality at the property boundaries; and
- (5) Establish the horizontal and vertical extent of COCs identified in groundwater at the site to the extent practicable given the estimated off-site extent of historic landfilling beyond the site boundaries.

4.2.1 Monitoring Well Installations

A total of nine groundwater monitoring wells, six shallow (MW-1S through MW-6S) and three deep (MW-2D, 3D and 6D), will be installed at the site to depths of approximately 25 and 50 feet below grade, respectively. Drilling methods used to install the monitoring wells will consist of 4.25-inch inside diameter (ID) hollow-stem auger (HSA) drilling techniques in the case of the shallow monitoring wells, and a combination of 6-1/4-inch ID HSA drilling techniques and 3-7/8-inch ID fluid rotary techniques for the deep monitoring wells. Estimated monitoring well locations are shown on Figure 4-1.

During drilling activities, auger cuttings will be logged by a geologist and field screened with a PID to monitor for the potential presence of VOC vapors. Continuous split-spoon soil samples will be collected during all monitoring well installation activities, with the exception of well pair locations (i.e., where both a shallow and deep monitoring well are proposed at the same location), in which case split spoon samples will not be collected at the shallow monitoring well location. Soil sampling for laboratory analysis for these borings was described in Section 4.1.2.

Each monitoring well will be constructed of two-inch-diameter PVC riser and ten feet of 0.01-inch slotted PVC well screen. In the case of the shallow monitoring wells, the well screen will be installed to straddle the estimated shallow water table, if present, above the "silt" layer. At the deep monitoring well locations, four-inch diameter steel casing will initially be installed to a depth of approximately 30 to 35 feet below grade, with the objective of sealing off any vertically restrictive layers (i.e., the silt layer), and allowing for the installation of a screen to monitor what is estimated to be a deeper sand and gravel

unit immediately underlying the silt layer (i.e., screened interval estimated to be approximately 40 to 50 feet below ground surface).

A summary of monitoring well locations is presented below. All locations and references are estimated based on an assumed westerly groundwater flow direction (Note: locations of monitoring wells may be adjusted in the field due to access considerations).

- MW-1S: This sidegradient monitoring well will be located along the southern
 property boundary to evaluate any potential offsite sources of contamination
 associated with the neighboring McDonald's property, or former filling station that
 reportedly existed where a neighboring commercial office building now exists.
- MW-2S/2D: These upgradient monitoring wells will be located along the eastern
 property boundary to evaluate if there are any potential offsite sources of
 contamination along West State Street (i.e., an identified former gas station, dry
 cleaner, and automobile repair facility), and to help establish upgradient water quality
 at the site.
- MW-3S/3D: These sidegradient monitoring wells will be located along the northern property boundary to evaluate any potential offsite sources of contamination associated with the neighboring Cheri Lindsey Memorial Park.
- MW-4S: This downgradient monitoring well will be located along the northwestern
 property boundary and will assist in evaluating any effects the historical site activities
 have exhibited on groundwater quality, and assist in evaluating groundwater quality
 migrating off-site.
- MW-5S: This monitoring well will be situated immediately downgradient of the former dry cleaner site location and is intended to identify effects on groundwater quality as a result of historical operations at the former dry cleaner location.

 MW-6S/6D: These downgradient monitoring wells will be located along the western property boundary and will assist in evaluating any effects the historical site activities have exhibited on groundwater quality, and assist in evaluating groundwater quality migrating off-site.

4.2.2 Well Development

Well development will begin no sooner than 24 hours after final completion of each monitoring well. Low-flow techniques will be used to develop each of the newly installed monitoring wells. Each well will be developed until the turbidity of the water is below 50 NTU, and/or field parameters (i.e., pH, conductivity and temperature) stabilize. Development water from the wells will be checked periodically for the presence of a sheen or free product. Development water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.

4.2.3 Groundwater Sampling

Groundwater sampling will be conducted no sooner than one week after final development of each monitoring well. Field parameters (i.e., pH, temperature, conductivity and turbidity) and groundwater elevation data will be collected from each monitoring well prior to purging (elevation data) and during sampling (field parameters). Groundwater elevation data will be calculated and a groundwater flow map constructed for the sampling event.

A maximum of nine groundwater samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), PCBs (USEPA Method 8082), and NYSDEC Part 360 "Routine Parameters" (as specified in 6 NYCRR Part 360, Subpart 360-2.11) by a NYSDOH ELAP-certified laboratory that participates in the CLP. Laboratory analytical procedures will adhere to NYS ASP 2000 methodologies and protocols.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank, trip blank (for VOCs only) and sample duplicate will also be collected. Following receipt, the analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a DUSR will be prepared.

4.2.4 Hydraulic Conductivity Testing

Hydraulic conductivity testing (i.e., "slug testing") will be performed on a total of four monitoring wells, two shallow and two deep, the locations of which will be determined after monitoring well installation is complete and the subsurface hydrogeology has been evaluated. Results of the testing will assist in establishing seepage velocities and contaminant transport rates as applicable.

4.3 SURFACE WATER/SEDIMENT SAMPLING

To evaluate water and sediment quality in Chenango River at locations proximal to the site, Delta will collect two surface water samples and two sediment samples from the eastern river bank at approximate locations shown on Figure 4-1. One location will be established approximately 100 feet upstream from the site (SED/SW-1) and one location will be in the vicinity of the downstream end of the property, but upstream of the municipal storm water outfall location (SED/SW-2). All sample locations will be situated within the existing water line of the river, approximately one to three feet from shore.

Surface water and sediment samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (8 RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) by a NYSDOH ELAP-certified laboratory that participates in the CLP. Laboratory analytical procedures will adhere to NYS ASP 2000 methodologies and protocols where applicable.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank (for sediment samples only), trip blank (for VOCs associated with surface water samples only) and sample duplicate will also be collected. Following receipt, the analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a DUSR will be prepared.

4.4 VAPOR INTRUSION MONITORING

The potential for vapor intrusion into on-site structures and indoor air quality as a potential exposure pathway for VOCs will be evaluated as part of the investigative activities during the Site Investigation phase of the project in accordance with NYSDEC and New York State Department of Health (NYSDOH) requirements as applicable.

4.4.1 Approach

The potential for VOCs to migrate from the subsurface into existing or future structures at the site will be evaluated by measuring three parameters concurrently at the site:

- (1) Target VOC concentrations in sub-slab air (i.e., in the crawl spaces beneath the buildings, and immediately beneath the pavement in parking lot areas);
- (2) Target VOC concentrations in indoor air, and;
- (3) Target VOC concentrations in outdoor ambient air.

As described below, a number of sample locations will be selected to ensure a representative cross section of the sampling parameters listed above, and also a representative cross section of site-wide conditions. One round of samples will be collected during the course of this investigation. Prior to conducting the air sampling, an inventory of the products (i.e., cleaning products, solvents, etc.) used in each location will be prepared. Note that it is anticipated that air sampling requirements will be delayed until after the completion of the intrusive soil and groundwater investigation phases of the Site Investigation, and potentially any Interim Remedial Measures (IRM) that may be

implemented as a result of the findings of the site investigation, such that final site conditions can be evaluated rather than pre-remedial site conditions. All samples will be collected in accordance with NYSDOH guidelines as described in Section 2.6 of the FAAP (Attachment 2).

Sub-Slab and Indoor Air Sampling Locations

The following is a list of the selected sampling locations at which samples will be collected concurrently of both the air in the crawl space and also the indoor air within the occupied space (i.e., "living" space). Note that the sampling locations listed are based on building number (refer to Figure 4-1 for building locations and numbers):

- 3 (currently vacant);
- 15 (currently vacant);
- 20 (currently vacant, former dry cleaner location);
- 24 (K-Mart);
- 29 (Furniture Shack, vacant as of June 1, 2005);
- 31 (day care center, Future Faces);
- 32 (vacant); and
- 33 (M&T Bank).

Reportedly, all of the on-site buildings were constructed on piers with vented crawl spaces (exposed soil in crawl spaces) to accommodate historical issues with methane emission from the subsurface as a result of historical landfill deposits beneath the site. As such, vented crawl spaces provide an appropriate sampling point beneath each building, representative of current "sub-slab" conditions. However, to further represent "sub-slab" conditions in the event that future structures may be constructed at the site immediately on the ground surface without the provisions of a crawl space, four additional samples are proposed for collection immediately beneath the pavement in the front and rear parking lot areas where competent pavement exists (i.e., two in the front parking area and two in the rear parking area). The locations of the front parking area samples will be field selected based on parking lot conditions, with the intention of

selecting locations in which the parking lot provides an effective seal over the underlying subsurface. The locations of the rear parking lot samples will be selected in a similar manner, however both rear parking lot samples will be biased towards the former dry cleaner location (Building 20), with at least one of the samples collected from the immediate vicinity of the former monitoring well location GSB-5 (refer to Attachment 1, Limited Site Investigation Report, Delta, March 2005).

Final locations of crawl space and indoor air sampling locations within the designated buildings will be selected based on considerations presented in Section 2.6.3 of NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York (VI Guidance Document).

Ambient Outdoor Sampling Locations

Concurrent with the collection of air samples in the crawl spaces, sub-pavement, and indoor air, ambient outdoor air samples will be collected from three locations. Assuming a westerly prevailing wind direction, one "upwind" sample will be collected along the westerly property boundary at a location that approximately bisects the length of western property boundary. Two "downwind" samples will be collected concurrently with the upwind sample, one from the immediate vicinity of building 30 and one from the immediate vicinity of building 33.

All air samples collected during the course of the Site Investigation will be analyzed by Severn Trent Laboratories of Burlington, VT, a NYSDOH-certified laboratory method TO-15, with minimum reporting limits in accordance with NYSDOH standards (typically 1 ug/m³) and sufficiently low to provide a comparison of the analytical results to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the VI Guidance Document. All analyses will include methane and methane-related analytes as appropriate.

4.5 SURVEYING

Upon completion of all field tasks, the horizontal and vertical locations of all soil borings, monitoring wells, surface water/sediment sampling locations, and exterior sub-pavement vapor sampling locations will be surveyed by a New York State (NYS) licensed land surveyor. Vertical elevations will be recorded to the nearest 0.01-foot. Top-of-casing elevations for each monitoring well will also be recorded to the nearest 0.01-foot. All sampling points will be referenced to an onsite fixed datum point.

4.6 DATA EVALUATION

4.6.1 Soil, Groundwater, Sediment, and Surface Water Sampling Data

Upon receipt, the analytical data packages will be reviewed for completeness and accuracy. All data will then be validated, and a DUSR will be prepared. Following validation the data will be compared to applicable standards, criteria, and guidance values as follows:

- Soil Data: NYSDEC TAGM 4046 recommended soil cleanup objectives.
- Groundwater Data: NYSDEC Division of Water Technical and Operational
 Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance
 values for groundwater. These values are derived from 6 NYCRR Parts 700-705,
 Water Quality Regulations. Groundwater elevation and flow data will also be
 reviewed and evaluated.
- Surface Water Data: 6 NYCRR Part 703, Class AA-S Surface Water Standards
- Sediment Data: NYSDEC's Division of Fish, Wildlife and Marine Resources
 Technical Guidance for Screening Contaminated Sediments (updated January 25, 1999).

4.6.2 Vapor Intrusion Monitoring Data

The results of the vapor intrusion monitoring as described above under Section 4.4 will be compared to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York, as applicable.

4.7 FISH AND WILDLIFE IMPACT ANALYSIS

Step 1 of NYSDEC's Fish and Wildlife Impact Analysis (FWIA) will be performed (NYSDEC, 1994). The objectives of the FWIA – Step 1 are to identify fish and wildlife resources that currently exist and also that may have existed before COC introduction, and to provide information necessary for the design of subsequent Site Investigation activities, if justified. Possible pathways of contaminant migration affecting fish and wildlife resources are identified through tasks performed for Step-1, as follows:

- Creation of site topographic, cover-type and drainage maps clearly identifying the specific features (i.e., site location and perimeter, fish and wildlife resources, wetlands, aquatic habitats, NYSDEC significant habitats, etc.) described in the guidance;
- Description of the fish and wildlife resources, including the expected fauna and vegetative cover-types as well as any areas of observed stress in the study area;
- Description of the fish and wildlife resources value including the value of the habitat to associated fauna and the value of these resources to humans; and
- Identification of applicable fish and wildlife regulatory criteria.

Based on the results of Step 1 of the FWIA and other investigative activities conducted as part of the Site Investigation, the need for additional FWIA steps will be evaluated in accordance with the criteria set forth in the guidance. If an ecological risk assessment (ERA) is deemed necessary, it will be performed in accordance with the ERA guidance developed by the NYSDEC and the USEPA for Onondaga Lake Subsites (NYSDEC, 1998). This guidance includes a combination of NYSDEC's FWIA guidance and USEPA's Ecological Risk Assessment Guidance for Superfund (USEPA, 1997).

5.0 HEALTH AND SAFETY

All project work will be performed in accordance with the site-specific Health and Safety Plan (HASP), provided as Attachment 4.

6.0 REPORTING

A Site Investigation Report, which includes appropriate support documentation (tables, maps, laboratory data reports, data validation reports, etc.), field data, and analytical data summaries will be prepared at the completion of field activities. The report will present findings, conclusions, and recommendations for additional work and/or remediation, if necessary. The Site Investigation Report will be prepared in general accordance with BCP Section 3.10 of the Draft Brownfield Cleanup Program Guide.

Monthly reports will be prepared and submitted to NYSDEC by the 10th day of each month, commencing with the month subsequent to the approval of the Investigation Work Plan and ending with the termination date. The monthly reports will include, at a minimum, the following information.

- Activities conducted during the reporting period;
- Anticipated activities for the next reporting period;
- Activity modifications;
- Sampling results;
- Project percentage completion;
- Corrective actions; and
- Citizen participation activities.

7.0 CITIZEN PARTICIPATION PLAN

A Citizen Participation Plan (CPP) will be prepared for use and implementation during the Site Investigation. The CPP will be submitted to NYSDEC, approved and implemented prior to the commencement of fieldwork at the site. The participation plan will include required elements as detailed in the NYSDEC Division of Environmental Remediation (DER) Guidebook titled, Citizen Participation in New York's Hazardous Waste Site Remediation Program, dated June 1998. NYSDEC will take the lead on performing public meetings. Preparation of required fact sheets and notices, creation of an appropriate mailing/contact list, completing mailings, maintenance of the document repository and updating the CPP will be the responsibility of the municipality. The CPP will include the following elements:

- Introduction to include public involvement goals and objectives, schedule, and access information;
- Historical Information;
- Site Description and History (including fact sheet for distribution);
- Community Profile;
- Community Relations Program to include community relations tools, access to records and information, and advertising information; and,
- References and contact information for elected officials and regulatory agencies.

8.0 SCHEDULE

Summarized below is a tentative schedule for completion of project milestones.

Task	Completion Date
Submission of Site Investigation (SI) Work Plan to NYSDEC:	5 August 2005
NYSDEC Provides SI Work Plan Comments to BPI:	16 September 2005
BPI Provides Response to NYSDEC Comments:	30 September 2005
Submission of Final SI Work Plan to NYSDEC:	30 September 2005
NYSDEC Work Plan Approval / Work Authorized / Authorize Work	14 October 2005
Begin Fieldwork*:	31 October 2005
Finish Fieldwork:	2 December 2005
Submit SI Report to NYSDEC:	20 January 2006
NYSDEC Provides SI Report Comments to BPI:	10 March 2006
BPI Provides Response to NYSDEC Comments:	24 March 2006
Final SI Report Provided to NYSDEC:	7 April 2006

Actual schedule will be dependent on NYSDEC approval of the Site Investigation Work Plan and the schedule may be accelerated or delayed to avoid problems associated with performing the field investigation in winter weather conditions.

*Note: The vapor intrusion monitoring and reporting schedule will be determined at a later date pending the results of the soil and groundwater investigation activities, and after the completion of any subsequent Interim Remedial Measures as necessary.

ATTACHMENT 1 SUPPORT DOCUMENTATION



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September 19, 2002

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McDONALD'S CORPORATION
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Attention:

Mr. Ed Cox

Regarding:

LIMITED PHASE II SITE INVESTIGATION FORMER BURGER KING RESTAURANT SITE

3 WEST STATE STREET

BINGHAMTON, BROOME COUNTY, NEW YORK

WHITESTONE PROJECT NO.: WI 02-5444

Dear Mr. Cox:

Whitestone Associates. Inc. (Whitestone) conducted field activities associated with a Limited Phase II Site Investigation (SI) to evaluate subsurface conditions at the above-referenced site on September 5, 2002. A summary of Whitestone's findings, conclusions, and recommendations associated with this effort is presented below.

1.0 SCOPE OF WORK AND LIMITATIONS

The current investigation included limited soil and groundwater sampling and laboratory analyses to address certain recognized environmental conditions identified in Whitestore's May 17, 2002 Summary Report of Findings - Phase I Environmental Site Assessment and Survey for Asbestos Containing Materials for the subject property. The primary goal of his limited Phase II SI was to preliminarily evaluate subsurface conditions through the collection and analysis of soil and groundwater samples to determine if on-site conditions have been adversely impacted by historical placement of fill material and/or historical lite operations which included a municipal incinerator and associated junkyard. Specifically, the limited Phase II SI included:

- installing nine borings with Geoprobe drilling equipment to facilitate soil screening and select sample collection;
- logging and screening soil samples with a phote ionization detector (PID) for tetal volatile organic (VO) concentrations; and
- submitting select soil and groundwater sample; for laboratory analyses.

This limited Phase II SI was not intended to be an extraustive evaluation of subsurface conditions at the subject property and is submitted for the sole use of McDonal I's

ENVIRONMENTAL & GEOTECHNICAL ENGINEERS & CONSULTANTS



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Corporation. This document should not be relied upon by any third party w thout Whitestone's written consent.

2.0 SAMPLING METHODOLOGY

Nine soil borings (B-1 through B-9) were installed throughout the subject property utilizing truck mounted Geoprobe equipment subcontracted from Enviroprobe Services. Inc. (Enviroprobe). Soils within the borings were screened with a PID to identify potential concentrations of volatile organic compounds. The socianterval displaying the highest PID reading or visible/olfactory evidence of contamination was targeted for laboratory and yees. Sampling equipment was decontaminated between successive uses.

Four soil samples (5444-B1, 5444-B4, 5444-B7, and 5444-B9) were collected from corresponding borings and submitted to QC Laboratories (QC) of Southam ton, Pennsylvania (NYSDEC Certificate #11223) for volatile organics (VO), base neutral organics (BN), and priority pollutant metals (PP Metals) analyses. Two ground attersamples (5444-B1-GW and 5444-B7-GW) also were submitted to QC for VO and BN analyses. Analytical results comprise Attachment B and are summarized in Table 1 Soil and Groundwater Sampling Summary), Table 2 (5 oil Sampling and Analysis Data Summary), and Table 3 (Groundwater Sampling and Analysis Data Summary). A site location map is provided as Figure 1 and boring locations are shown on Figure 2.

3.0 SAMPLING AND ANALYSIS DATA SUMMARY

Soil borings B-1 through B-9 were completed at the subject site to depths ranging from 12.0 feet below ground surface (fbgs) to 20.0 fbgs. Florings generally were distributed throughout the subject property to provide broad coverage of subsurface conditions at the site, however, borings B-1 through B-1 were placed within the proposed McDoneld's restaurant building area and borings B-4 through B-1 were placed in the vicinity of the former municipal incinerator. Groundwater was an ountered at depths ranging from approximately 10.0 feet below ground surface (fbgs) and 17.0 fbgs in borings advarced during the limited Phase II SI.

Materials encountered in the borings included various fill consisting of brown to gray silt and sand and gray clay. These soils also contained varying amounts of gravel, blick fragments, paper, ash, wood, and glass. Natural soils were not encountered during the limited Phase II's

Contaminant concentrations exhibited within the so samples were compared to the NYSDEC 1994 Technical and Administrative Guidance Memorandum (TAGM) Recommended Soil Cleanup Objectives. PP Metals concentrations also were compared Eastern USA Background Levels. Groundwater concentrations were compared to NYSD 3C TAGM Groundwater Standards.

3.1 Proposed Building Area

Soil borings B-1 through B-3 were installed within the proposed McDonald's restaur int building footprint. Although elevated PID readings were not detected above background



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levels in soils collected from borings B-1 through B-3 slight petroleum odors were de ected in the approximately 7.0 fbgs to 8.0 fbgs soil interval in borings B-1 and B-3. Visual/olfactory evidence of contamination was not directed in soil collected from boring B-2. Soil sample 5444-B1 was collected from its corresponded boring and submitted for PP Metal, VO, and BN analyses.

Laboratory analysis of soil sample 5444-B1 yielded by zene at a concentration of 112 parts per billion (ppb), zinc at a concentration of 209 parts per million (ppm), and mercury at a concentration of 0.33 ppm. These contaminant concentrations exceed applicable NYS DEC TAGM Recommended Soil Cleanup Objectives of 60 ppb for benzene, 20 ppm for zinc, and 0.1 ppm for mercury. Zinc and mercury concentrations also exceed the Eastern USA Background Levels for these respective metals. Furthermore arsenic, beryllium, chron ium, and copper were detected at concentrations exceeding NYSDEC TAGM Recommended Soil Cleanup Objectives, however, these metal concentrations are within the Eastern USA Background Level ranges for these respective metals. As shown in Table 2, additional PP Metals, VO compounds, and BN compounds were detected at concentrations exceeding laboratory Method Detection Limits (MDLs), however, these additional contaminant concentrations do not exceed applicable NYSDEC To GM Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

Groundwater sample 5444-B1-GW was collected from boring B-1, and submitted for VO and BN analyses. As outlined in Table 3, benzene, ethyl benzene, naphthal me, acenaphthylene, phenanthrene, benzo(a)anthracene, chrysene, benzo(b)fluoranth me, benzo(k)fluoranthene, and benzo(a)pyrene were defected in laboratory analysis of groundwater sample 5444-B1-GW at concentrations exceeding NYSDEC TA 3M Groundwater Standards. As outlined in Table 3, additional VO and BN compounds were detected in laboratory analysis of 5444-B1-GW at concentrations exceeding laboratory MDLs, however, these additional constituent concentrations are below applicable NYSDEC TAGM Groundwater Standards.

3.2 Former Municipal Incinerator Area

Soil borings B-4 through B-6 were installed throughout the former municipal inciner; tor area situated in the western portion of the subject site. Elevated PID readings above background levels and visual/olfactory evidence of contamination was not detected in these borings. However, due to the significant quantities of uncontrolled fill within these borings (and throughout the subject site) soil sample 5444-B4 was collected from its corresponding boring and submitted for laboratory analyses.

Laboratory analyses of soil sample 5444-B4 detected zinc at a concentration of 165 pp m, mercury at a concentration of 0.299 ppm, benzo(a)anthracene at an estimated concentration of 791 ppb, chrysene at an estimated concentration of 781 ppb, and benzo(a)pyrene at an estimated concentration of 718 ppb. These contaminant concentrations exceed applicable NYSDEC TAGM Recommended Soil Cleanup Objectives of 20 ppm for zinc, 0.1 ppm for mercury, 224 ppb for benzo(a)anthracene, 400 ppb for chrysene, and 61 ppb for benzo(a)pyrene. Zinc and mercury concentrations detected in laboratory analysis of 5444-B4 also exceed Eastern USA Background Levels. Arsen c, beryllium, chromium, coppor, and nickel also were detected in soil sample 5444-B4 at concentrations exceeding NYSDEC TAGM Recommended Soil Cleanup Objectives, however, these metal concentrations are within the range established by Eastern USA Background Levels. Several additional VO,



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BN, and PP Metal constinuents also were detected above laboratory MDLs in soil sample 5444-B4, however, these concentrations did not exceed NYSDEC TAGM Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

3.3 Historic Site Usage

Soil borings B-7 through B-9 were installed throughout the parking area of the firmer Burger King restaurant, however, borings B-7 and B-8 were biased toward the areas of the former on-site junkyard operations which was located in the northern portion of the site. Boring B-9 was installed along the northeastern border of the property to determine if subsurface conditions at the subject property have been impacted by a former gas sline station situated to the immediate northeast of the site. A maximum PID reading of approximately 7.4 ppm and a gasoline odor were detected in soil boring B-7. Elevated PID readings above background levels were not detected in soil borings B-8 or B-9, however, a gasoline odor was detected in soils collected from boring B-9. Soil samples 5444-B' and 5444-B9 were collected from their corresponding by ings and submitted to QC for PP Metals, VO, and BN analyses.

Laboratory analysis of soil sample 5444-B7 detected zinc at a concentration of 104 ppm, benzene at an estimated concentration of 103 ppb, tolur le at a concentration of 73,300 ppb, total xylenes at a concentration of 27,280 ppb, be izo(a)anthracene at an estimated concentration of 873 ppb, chrysene at an estimated concentration of 1,070 ppb, and benzo(a)pyrene at an estimated concentration of 775 ppb. These contaminant concentrations exceed applicable NYSDEC TAGM Recommended Soil Cleanup Objectives of 20 ppm for zinc, 60 ppb for benzene, 1,500 ppb for toluene, 1,200 ppb for total xylenes, 224 for benzo(a)anthracene, 400 ppb for chrysene, and 61 ppb for benzo(a)pyrene. As outlined in Table 2, additional PP Metals, VO, and BN compounds also were detected in laboratory analysis of soil sample 5444-B4 at concentrations which did not exceed applicable NYSDEC TAGM Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

Laboratory analysis of soil sample 5444-B9 detected arsenic at a concentration of 15.9 ppm, cadmium at a concentration of 3.32 ppm, zinc at a concentration of 32,700 ppm, mercury at a concentration of 0.999 ppm, and naphthalene at an estimated concentration of 33,400 ppb. These contaminant concentrations exceed applicable NYSDEC TAGM Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels. As detailed in Table 2, additional PP Metals, BN, and VO compounds also were detected at concentrations exceeding laboratory MDLs, but below applicable NYSDEC TAGM Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

The following VO and BN constituents were detected at concentrations exceeding NYSD 3C TAGM Groundwater Standards in laboratory analysis of groundwater sample 5444-B7-C W: vinyl chloride at an estimated concentration of 2.75 ppb, benzene at an estimated concentration of 5.0 ppb, toluene at a concentration of 12 ppb, total xylenes at an estimated concentration of 12.6 ppb, naphthalene at an estimated concentration of 15.5 ppb, and benzo(a) anthracene at an estimated concentration of 3.28 ppb. The NYSDEC TAGM Groundwater Standards for vinyl chloride, benzene, coluene, total, naphthalene, and benzo(a) anthracene are 2 ppb, 0.7 ppb, 5 ppb, 5 ppb, 16 ppb, and 0.002 ppb, respectively. As detailed in Table 3, additional VO and BN compounds were detected above laboratory



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MDLs in groundwater sample 5444-B7-GW, however these concentrations do not exceed applicable NYSDEC TAGM Groundwater Standards for these compounds.

4.0 RECOMMENDATIONS AND CONCLUSIONS

Whitestone conducted limited Phase II SI activities to preliminarily determine if or site conditions have been adversely impacted by historical placement of fill material at d/or historical site operations which included a municipal incinerator and associated junk; and. Based on the limited soil sampling and analyses described herein, each of the four soil samples submitted for laboratory analyses exhibited VI, BN compounds, and/or PP M stals at concentrations exceeding applicable NYSDEC TSGM Recommended Soil Cleanup Standards and/or Eastern USA Background Levels. Furthermore, each of the two groundwater samples submitted for laboratory analyses exhibited VO and BN constituents at concentrations exceeding NYSDEC TAGM Groundwater Standards.

The contaminant conditions identified above indicate a site-wide contamination condition within the fill material. This condition must be reported to NYSDEC by the site owner and the site owner may enter into NYSDEC's Voluntary Cleanup Program (VCP). Supplemental site investigation activities should be conducted pursuant to NYSDEC's VCP to further characterize the fill material and groundwater and to determine potential corrective action alternatives. These supplemental activities would include collecting additional soil/fill samples for laboratory analysis and the installation and sampling of groundwater monitor wells.

From the data obtained to date, the impacted fill material identified on the subject property likely may remain on site with the implementation of engineering controls (asphalt cap, site building, etc.) and institutional controls (deed acknowledgment). Material requiring excavation for construction purposes will require a regulated off-site treatment/recycling and disposal unless this material can remain on site for non-structural applications.

The recommendations presented above are intended to supplement those outlined in Whitestone's May 17, 2002 Summary Report of Findings - Phase I Environmental Lite Assessment and Survey for Asbestos Containing Materials for the subject site.

If you have any questions or require any additional information regarding these matters, please do not hesitate to contact us.

Sincerely,

WHITESTONE ASSOCIATES, INC. -

Keith T. D'Ambrosio, P.E.

Manager, Environmental Services

Y Onan Lee

Environmental Engineer

YML/jb X:\WStone\2002\5444\5444-P2SI.wpd

Enclosures

c: Michael E. Jeitner, P.E., Bohler Engineering, Inc.

File #WP02-5444



TABLES 1 through 3
Soil and Groundwater Sampling
and Analysis Summary Tables

TABLE 1 SOIL SAMPLING SUMMARY Former Burger King Restaurant Site = 3 West State Street, Binghamton, E roome County, New York

<u> </u>	0.31.0	Total Basina Dank	CIV Deste	Manimum DID Day ding		
Boring Number	Soil Sample Interval (fbgs)	Total Boring Depth (fbgs)	GW Det 1 (fbgs)	Maximum PID Reading (ppm)		
9-1-	7.0 to 7.5	20.0	17.0	0.0		
B-2	NS	20.0	12.0	0.0		
B-3	NS	16.0	10.0	0.0		
B-4	7.0 to 7.5	18.5	NE	0.0		
B-5	NS	14.5	12,5	0.0		
B-6	NS	16.0	10.0	0.0		
B-7	6.0 to 6.5		11.0	7.4		
B-8	NS	12.0	11.0	0.0		
B-9	13.5 to 14.0	8.0	NE	0.0		

NOTES:

fbgs

feet below ground surface

GW

Groundwater Not Encountered

NE

Not Encountered

PID

Photoionization detector

ppm NS parts per million

Not Sampled

TABLE 2 SOIL SAMPLING & ANALYSIS DATA SUMMAILY

Sample Number	PPMetals Detected Above MDLs (ppm)	VO Constituents Detected Above MDLs (ppb)	BN Constituents Detected Above MDLs (ppb)
5444-B1	*arsenic - 7.85 *beryllium - 0.434 *chromium - 13.4 *copper - 44.1 nickel - 15.9 lead - 122 zinc - 209 mercury - 0.33	benzene - 112 J toluene - 237 J ethyl benzene - 203 J total xylenes - 279 J	bis(2-ethylhexyl)phthalate - 2,60
5444-B4	*arsenic - 8.25 *beryllium - 0.541 *chromium - 19.6 *copper - 31.6 *nickel - 19.3 lead - 156.0 zinc - 165.0 mercury - 0.299	carbon disulfide - 3.90 J methylene chloride - 57.0	naphthalene - 801 J 2-methylnaphthalene - 298 J acenaphthene - 334 J fluorene - 311 J phenanthrene - 1,660 anthracene - 493 J carbazole - 480 J fluoranthene - 1,600 J pyrene - 1,510 J benzo(a)anthracene - 791 J chrysene - 781 J bis(2-ethylhexyl)phthalate - 1,700 benzo(b)fluoranthene - 605 J benzo(k)fluoranthene - 640 J benzo(a)pyrene - 718 J indeno(1,2,3-cd)pyrene - 291 J benzo(g,h,i)perylene - 304 J
5444-B7	arsenic - 6.62 *beryllium - 0.353 *chromium - 14,0 copper - 20,7 *nickel - 21,5 lead - 95,4 zinc - 104	benzene - 103 J trichloroethene - 236 J toluene - 73,300 ethyl benzene - 5,360 total xylenes - 27,280	phenanthrene - 1,770 J fluoranthene - 2,090 J pyrene - 1,990 J benzo(a)anthracene - 873 J chrysene - 1,070 J bis(2-ethylhexyl)phthalate - 585 J benzo(b)fluoranthene - 732 J benzo(k)fluoranthene - 802 J benzo(a)pyrene - 775 J
5444-B9	arsenic - 15.9 *beryilium - 0.489 cadmlum - 3.32 *chromium - 16.9 *copper - 26.5 *nickel - 23.3 lead - 352 zinc - 32,700 mercury - 0.999	acetone - 76.5 2-butanone - 11.5 total xylenes - 1.22 J	naplithalene - 33,400 J 2-methylnaphthalene - 19,500 J
OTES:			<u> </u>
BOLD]	Exceeds NYSDEC Technical and	d Administrative Guidance Memoran	aun Recommended Soil Cleanup
	Objectives and/or Eastern USA E Exceeds NYSDEC Technical and	sackground Level Ranges I Administrative Guidance Memorani	dun Recommended Soil Cleanup
0	Objectives but within Eastern US	A Background Level Ranges	·
4	Volatile Organics (Method 8260) Base Neutral Organics (Method 8		
Metals	Priority Pollutant Metals (Method		
ь	parts per billion	•	
m Di	parts per million Laboratory Method Detection Lir	nite	ł
DL	Indicates an estimated concentrati		

Indicates an estimated concentration

Sample Number	VO Constituents Detected Above MDLs (ppb)	BN Constituents I etected Above MDLs (ppb)
5444-81-GW	acetone - 17.4 J benzene - 9.80 J ethyl benzene - 7.35 J total xylenes - 3.20 J	naphthalene - 82.3 2-mithylnaphthalene - 13.3 J is snaphthylene - 6.91 J : cenaphthene - 40.3 fluorene - 23.6 ittenanthrene - 74.7 inthracene - 17.1 J illuoranthene - 23.9 pyrene - 44.2 benzo a) anthracene - 11.8 J chrysene - 11.1 J bis(2-ettylhexyl)phthalate - 8.35 J benzo(tifluoranthene - 5.44 J benzo(tifluoranthene - 6.74 J benzo(tifluoranthene - 10.8 J benzo(tifluorant)
5444-B7-GW	vinyl chloride - 2.75 J acetone - 22.8 J l,l-dichloroethane - 2.60 J cis-l,2-dichloroethene - 2.50 J benzene - 5.00 J toluene - 121 total xylenes - 12.6 J	naghthalene - 15.5 J 2-methy naphthalene - 6.40 J acer: ohthene - 5.56 J diber:tofuran - 4.04 J flu rene - 8.12 J phenauthrene - 17.3 J anti-noene - 3.44 J carb:zole - 4.84 J fluon: thene - 10.7 J pyrine - 8.44 J benzo(a)a: thracene - 3.28 J bis(2-ethylhe) yl)phthalate - 8.40 J
1 L	Exceeds NYSDEC Technical and Administrative Gu Volatile Organics (Method 8260) Base Neutral Organics (Method 8270) parts per billion parts per million Laboratory Method Detection Limits indicates an estimated concentration	



RECORD OF SUBSURFACE EXPLORATION

Boring No.: E-1

(Page 1 of 1)

Project:	Existing Burg	er King Restaura	nt		VAI P	roject No.:	WP02-544	14				
Location:	3 West State S	treet; Binghamto		Client: McDonald's Cor								
Surface Elevat	_					Not Surveyed Date Started: 09/05/02 Vater Depths						Cave-i: Depths (firet)
Proposed Loca Drilling/Test M	tion:	er / Macrocore	Logged By: Y. Lee While I) Driller: Enviroprobe At Comp Rig Type: Geoprobe 5400			17.0	¥ AtC	ompletion ;				
Depih (feet)	Blows Per 6* Recovery	Depth (feet)	Strata	DESCRIPTION O			PID READING (ppm)	S REMARK				
0.0 - 4.0	28 in.		FILL	Fine to Medium Sand and Silt, Son Fragments, Little Asphalt (FILL)	se Gravel, Li:le Bric	k	0,0 9,0 0,0 0,0 0,0					
1.0 ~ 8.0	28 in.	19-1		Gray Silt and Some Fine Sand, Som Faint Petroleum, Odor at 7.0 to 8.0 fi	e Gravel, Little Pape bga (FILL)	r/Ash,	0.0 0.0 0.0 0.0					
0 - 12 0	l6 in.	1.0		As Above			0.0 0.0 0.0					
0 - 16.0	18 in.	12.0		As Above			0.0 0.0 0.a					
- 20,0	!2 in.	16.0	G	ray Clay, Some Fine Sand and Grave	ł		0,0 0,0	-				
				oring B-1 Terminated at 20.0 Feet Be impled @ 7.0 to 7.5 fbgs	low Ground Surface							



RECORD OF SUBSURFACE EXPLORATION

Boring No.: 3-2

(Page 1 of 1)

Project: Existing Burger King Restaurant								WAJ Project No.: WP02-5444					
Location:								ne County, NY		Client	: Mc	τ	Corporation
Surface Elevation: Not Surveyed Termination Depth: 20.0 feet bgs							Date Started: 09/05/02 Date Completed: 09/05/02						eve- n Depths (eet)
Proposed Location:						L				cilling: 12.0	0 3		
. Drilling/Test Method: Hammer / Macrocore				e D	riller:	Enviroprobe :	At Corr	pletion:	Ϋ́	At Com	pletic n;		
						R	g Ту <u>г</u>	e: Geoprobe 5400	<u> </u>				
Sample Information						-	1	DESCRIPTION OF		7.1.0		PID	
Depth (feet)	Number	Type	Blows Per 6* Recovery	N	Depth (feet)	Strata		DESCRIPTION OF		.IAL3		ADINGS (ppm)	REMARI
						FILL	\top					Ó.Q	1
					ĺJ	FILE						0.0 0.0	1
0.0 - 4.0	j i		30 in.		-		1	Brown to Gray Silt, Some Fine San (FILL)	d, Little Cl	y, Little Gravel	1	0.0 0.0	
i							ł	(1102)				0.0	
					F.,								
					4.0					•		0.0	
					4							0.0	
4.0 - 8.0			10 in_				-[]	As Above, Asphalt Layer at 10,0 fbg	gs (FILL)		,]
			1		4								1
İ			1		7								
		\dashv			•.•] [0.0	
				- [7						[0.0]
.0 - 12.0			8 in.		1			As Above (PILL)] .
]	- 1		1	- 1	4		\prod	, —,			Ī		
1		ľ	ł		Ţ.,,								
- 1		\dagger		7	12.0							o.a .	
	}			-	\exists							1.0	
0-16.0			16 is.				11.	Gray Silt, Little Clay, Little Wood, Gr	avel and f	ass (FULL)	(),0	
				1	4		\prod			,			ı
				1.			$\ \cdot\ $						
	\dashv	+		┨,	6.0					•	ń	, [
1					7		11			1		.o.	_
- 20.0			16 in.		_		11,	⊌ Above (FILL)		}		ł	•
			. 1		7		'	Course (chin)		1		.	
			[ゴ					į		1	
 		┼		20	0.0		- F	oring B-2 Terminated at 20.0 Feet Be	low Com	d Surface			
			1.				∣¹°	owing are swellengies at 40,0 FCCL DC	(1011)			·	
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RECORD OF SUBSURFACE EXPLORATION

Boring No.: B 3

(Page 1 (f 1)

Project:			kisting Burge					V. Al Project No.:	WP02-5444	
Location:							ome County, NY	Client:	McDonald's	
Surface El	evatio	n:	Not Sur			1	Started: 09/05/02	Water Depths (feet)	"	ive-in Depths - (fe:t)
Terminatio			16.0 (ee	t bgs	;	—	Completed: 09/05/02		Ā	
Proposed I								Dalling: 10.0	▼ At Comp	detion
Orilling/Test Method: Hammer / Macrocore				er / M	lacrocor		•	spd:tion:	1 Account	retion
					T - 1	Rig	ype: Geoprobe 5400			
		ole Inf	ormation	•	-	_	DESCRIPTION OF MATE	RuilS	PID	155445
Depth (feet)	Number	Type	Blows Per 6" Recovery	И	Depth (feet)	Strata	(Classification)		READINGS (ppm)	LEMĄR
									0.0	
]	i ⊢	LITE.			0.0 0.0	
0,0 - 4.0		П	42 in,]			Brown to Gray Silt and Clay, Little Fine Sand	an: Gravel, Trace	0.0	
							Brick Fragments, Wood and Glass (FILL)	1	0.0 0.0	
1	1				-			ı	0.0	┦ .
		$\vdash \downarrow$			4.0				4.5	1
j					-		1	ŀ	6.0 0.0	1
- 1									0.0	1
4.0 - 1.0			42 in.		4		As Above, Brick and Asphalt Layer at 6.5 fbg Odor at 7.0 to 8.0 fbgs (FILL)	5, 1 : sint Petroleum	0.0	
]		ŀ			1				0.0 0.0	
			ł	-	F		1		0,0]
		- -		\dashv	8.0			1	0.0	
-	-		ļ					}	0.0	
				1	4	l		1		ĺ
0 - 12.0		1	8 in.	7			As Above, Wel (FILL)			
1		1	1	-	-					
					12.0	ĺ				
	\top	Т			7	- 1			0.0	
	- 1				\dashv	į	1	İ		
0 - 16.0		1	2 ja,			j	As Above (FILL)	1	ļ	
- 1		1			-	ĺ	, A. A. A. A. A. A. A. A. A. A. A. A. A.			
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_	+	+		+1	6.0		Boring B-3 Terminated at 16.0 Feet Below Gros	156 5		
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Boring No.: I-4

(Page I of I)

Project:			risting Burge					- County NV		Client:	McI	Donald's C	or oration
Location:								ne County, NY arted: 09/05/02	 .	Vater Depths	- 1,100		e-l i Depth
Surface El			Not Su	_		l l		ompleted: 09/05/02		(feet)			(f :et)
Terminatio			18.5 fee	et ogs	i	→—		By: Y. Lee	While I	rilling: NE	4		
Proposed i										•	₹	At Compie	etio e
Drilling/To	est Me	thod:	Hamme	er / M	(acroco			· i	At Corr	; eaon:	¥	At Collipie	
						Rig	Тур	e: Geoprobe 5400					
	Sam	pie Inf	ormation]			DESCRIPTION OF	44 A TEE	115		PID	
Depth (feet)	Number	Type	Blows Per 6" Recovery	N	Depth (feet)	Strata		(Classifica				ADINGS ppm)	REMAR
						P.1. 1	Τ					0.0	
	ĺ			}	-	FILL				`		0.0	
00.40		11	24 in.]			Brown to Light Brown Silt, Some Fin	e Sand Si	ine Gravel (FILL)		0.0	
0.0 - 4.0		$ \ $	Z4 HL		1 7			Grown to estim proper strict source the	· • • • • • • • • • • • • • • • • • • •			1	
		$ \cdot $			-					ļ		İ	
					4.0_		Н					1	
										1		0.0	
}	į		i		-		П			Ì		0.0	
4.0 - 8.0	ĺ		20 in.		コ		Н	As Above (FILL)		ļ		0.0	
1					4					i			
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j	}			1	4					1		0.0	
	1	-	ł	- }	J					1		1.0	
0 - 12.0	-	-	20 in.	- 1				Gray Organic Clay and Silt, Some Wor (FILL)	ad Fragmi	ets, Little Glass		ŀ	
	-	- }		- }	4		-	1=		ľ		1	
1		-				İ	I			Į		1	
 -}-		+-		-	12.0	ļ	ł			[_	.0	
	}				j	1				j	0	ا "	
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0 - 16.0			Z in.		4	1	1			ļ			
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- 18.5										1	u .	-	
- 18.3			2 in.		4		1	a Above, Little Wood Fragments (FILL	-)				
					8.5								
. [1		T				oring B-4 Terminated at 16.0 Feet Belo	w Grounz	Surface			
		1					*	smpled @ 7.0 to 7.5 fbgs		1		{	
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Boring No.: B-5

(Page 1 of 1) WP02-5444 VAI Project No.: Project. Existing Burger King Restaurant Client: McDonald's Corporation 3 West State Street; Binghamton, Broome County, NY Location: Cave-is Depths Vater Depths Date Started: 09/05/02 Surface Elevation: Not Surveyed (feet) (fi et) Date Completed: 09/05/02 Termination Depth: 14.5 feet bgs 7 12.5 While In Iling: Logged By: Y. Lee Proposed Location: ∇ At Completion At Completion: Driller: Drilling/Test Method: Enviroprobe Hammer / Macrocore Rig Type: Geoprobe 5400 Sample Information PID DESCRIPTION OF MATERIALS READINGS REMARKS Depth Strata (Classification) -Blows Per 6" Depth (ppm) (feet) Recovery (feet) 0.0 FILL 0.0 0.0 Brown to Dark Brown Medium Sand, Some Sil:, Some Gravel, 0.0 0.0 - 4.024 in_ Little Brick, Wood Fragments and Glass (FILL) 0.0 0.0 0.0 0,0 4.0 - 8.0 16 ia. As Above (FILL) 0,0 8.0 - 12.0 As Above (FILL) 12.0 12.5 0.0 12.0 - 14.5 2 in. Organic Gray Clay, Some Silt Boring B-5 Terminated at 14.5 Feet Below Groun i Surface Due to Refusal



Boring No.: 11-6

(Page 1 of 1)

WAJ Project No.: WP02-5444 Existing Burger King Restaurant Project: Client: 3 West State Street; Binghamton, Broome County, NY McDonald's Corporation Location. Date Started: 09/05/02 Water Depths Cave-: n Depths Surface Elevation: Not Surveyed (feet) (: eet) Date Completed: 09/05/02 Termination Depth: 16.0 feet bgs ¥ While Liftling: 10.0 Logged By: Proposed Location: Y. Lee ∇ At Completic 1: At Contiletion: Driller: Enviroprobe Drilling/Test Method: Hammer / Macrocore Rig Type: Geoprobe 5400 Sample Information PID DESCRIPTION OF MATERIALS **READINGS** REMARKS Depth Strata (Classification) Blows Per 6" Depth (ppm) (feet) (feet) Recovery 0.0 FILL 0.0 0.0 0.0 Sand, Gravel, Brick, Class, Wood (FUL) 0.6 - 4.028 in. 0.0 0.0 0.0 0.0 Gray Organic Silt, Some Clay, Trace Root Fragments, Brick and 4.0 - 8.0 14 is. Wood (FILL) 0,0 0.0 8.0 - 12.0S in. As Above (FILL) 0,0 0.0 12.0 - 16.0 3 in. As Above, Wet (FILL) 16.0 Boring B-6 Terminated at 16.0 Feet Below Ground Surface

NOTES: NR - No Recovery



RECORD OF SUBSURFACE EXPLORATION

Boring No.: 8-7

RECORD OF SUBSURFACE EXPLORATION 5444covic groupd 09/1 1/02

(Page 1 of 1)

Project: Existing Burger King Restaurant WAI Project No .: WP02-5444 Location: 3 West State Street; Binghamton, Broome County, NY Client: McDonald's Corporation Surface Elevation: Date Started: Nat Surveyed 09/05/02 Water Depths Cave- in Depths (feet) (feet) Termination Depth: Date Completed: 12.0 feet bgs 09/05/02 Proposed Location: Logged By: 7 Y. Lee While Exilling: 11.0 Drilling/Test Method: Driller: Hammer / Macrocore At Correlation: ∇ Enviroprobe At Completic n: Rig Type: Geoprobe 5400 Sample Information PID DESCRIPTION OF MATERIALS Depth Strata READINGS REMARKS Depth Blows Per 6" (Classification) (feet) (feet) (ppm) Recovery 0.0 FILL 0.0 0.0 Dark Brown to Black Silt, Some Gravel, Glaza, Wood Fragments 0.0 - 4.024 is. 0.0 (FILL) 0.0 0.0 0,0 4.0 - 8.020 in. As Above, Petroleum Stained Soil (FILL) 0.0 0.0 0.0 8.0 - 12.0 46 ia. 0.0 As Above (FILL) 0.0 0,0 12.0 Boring B-7 Terminated at 12.0 Feet Below Ground Surface Sampled @ 6.0 to 6.5 fbes

NOTES: NR - No Recovery



RECORD OF SUBSURFACE EXPLORATION

Boring No.: 8-8

REC ORD OF SUBSURFACE EXPLORATION 5444 envis suppl 09/11 /02

(Page 1 of 1)

APP OT A

												-	- '-		01 ()
Project:		ļ	Existing Burg	er Kii	g Resta	UFAI	ıt				WAI Project No	. WP	02-544	4	
Location						mtor			ne County, NY		Clien	t: Me	Donald	's Cor	oration
Surface			Not St	-		1	1		arted: 09/05/02		Water Depths				n Depths
Termina		•	12.0 fe	et bgs	i				ompleted: 09/05/02		(feet)		ļ	(tet)
Proposed Drilling/			l		•				l l		Orilling: 11.0	Ā			
Dimoig	1 C31 IV	60100	. namm	er/ W	lacroco	re	Drill Rig		,	_011	nuletion:	፟ ፟	At Co	mpletic (Ľ
, <u>,.</u>	San	nple ir	ıformation			Γ^{\perp}	МБ	Ť	e: Geoprobe 5400	<u> </u>	• • ===================================	1	<u> </u>		
Depth (feet)	Number	7		N	Depth (feet)	Str	rāls		DESCRIPTION OF MA (Classification)		RIALS		PID ADINGS (ppm)	s	REMARKS
0.0 - 4.0	2		24 in,		4.0	FU	LL		Gray Silt, Some Gravel and Sand, Little G	lass,	'Vood Fragments		0.0 0.0 0.0 0.0		
4,0 - 8,0			18 in.		#.0 1 1 1				As Above (FILL)			l	0.0 0,0 0.0		
0 - 12.0			Ø in.	*					As Above (FILL)				.o .o .		
					2.0			Ē	oring B-8 Terminated at 12.0 Feet Below G	, O/ L	I Surface			-	
												·			



Boring No.: 1:-9

(Page 1 of 1)

Project:	Exist	ting Burge	r Ki	ng Rest	2UF21	ıt				VAI Pro	ject No.:	WP	02-5444		
Location:					mtor			e County, NY	 		Client:	Mcl	Donald's C	orj oratio	on
Surface Elevation		Not Su	-			1		arted: 09/05/02	1	Vater D			Cav	e-i ı Dep	ths .
Termination De	-	14.0 (e	et bg	5		_		mpleted: 09/05/02	 .	(fee	t)		ļ	(f :et)	
Proposed Locati		••		_		Log			While D		NE	Ā			
Deilling/Test Me	etnod;	Hamme	er / N	1acroco	re	Drii		Enviroprobe	At Comp	etion:		Ϋ́	At Comple	tio:	
Sam	pie Inform:	7000		T	, 	Rig	Typ	Geoprobe 5400	<u></u> .				L		
	TT	<u>_</u>	1	-				DESCRIPTION (OF MATERI	al \$			PID		
Depth day	agy B	Ows Per 6" Recovery	N	Depth (feet)	34	ata		(Classifi	cation)				ADINGS (ppm)	REMA	\RKS
					FЦ	ı							0.0		
		i		-			П				- 1		0,0		
0.0 - 4.0		28 in.					П	Gray Silt, Some Gravel and Sand, (FILL)	Wood, Brick,	Jiass Fra	gments		0.0	•	
•				4			П				- 1		0.0		
				4.0		j	$\ \ $						- 1		
			- 1	4							- 1		0.0		
.]			- 1	1-1-1				•					0.0 0.0		
4.0 - 8.0	2	28 in.		\dashv		ł	1	As Above (FILL)							
·		- 1	- [4		- 1					ł		1		
	1.		_]	8.0_		- 1									
			\neg	7		İ						0	.0		
		1				- 1							.0		
.0 - 12.0	16	5 in.	1	4		- 1	1	s Above (FILL)				U	."		
	1	ľ		1		- [1		1		
	<u> </u>		1:	2.0			1						1		
			7	7		1					1				
0 - 14.0	18	in.		\exists		-	۱	Abova, Faint Petroleum Odor (FIL	rx				1		
	 		- 14	.0]								0.0	'		
	1	1				Ш	10	ring B-9 Terminated at 14,0 Feet B Refusal	elow Ground	surface D	ue				
1 1			1	-		1	Sa	apled @ 13,5 to 14,0 fbgs							
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NR = No Resovery				1	1						1		LATION 5444em		



ATTACHMENT B Laboratory Analytical Results



09/16/02 02:26pm

Regardina:

MEITH DIMBROSIO WHITESTO HE ASSOCIATES 1120 WELS- ROAD SULTS 107 HORTH MALLIS, PA 18454

KEITH D'AMBROSIO WHITESTONE ASSOCIATES 1120 WELSH ROLD SUITE 199 NORTH HALES, PA

int. Ho: P.S. No: 17/02-2444 Account No: BODISS, WHITESTONE ASSOCIATES PWSID Na: WHITESTONE ASSOCIATES Project No: BOOL95. sampled by Samp. Date/Chas/Temp sample Destription Sample Maber Customer Sampled 00/05/02 10 10am HAPP MP02 5444 21 1941115 1 Rescaved Tamp: 37°F Iced (Y/N): Y Test Cate, Cime, July Resu_t Parametar C9/11/03 10:5 67M 2 AB ND ag/kg DRY 1.13 mg/kg SILVER BW845 Nethod 6013 7.85 mg/kg DRY 1.13 mg/kg C9/11/02 10:562N 3 4B SW046 Nethod 6013 ARSENIC CH/11/d2 10:56AM # IM 1.227 mg/kg CIUS POSTOR SARKS U. 634 mg/kg URX FERYLL UN NU mg/kg UKY Lissa bg/kg C9/11/02 10:554M # W CAUMALN Sweet wettod sulo 13.4 mg/kg DRY 1.13 mg/kg C#/11/02 10:562H BUB SW846 Nethod 6013 PROMITON SWEAF NECEDE 6013 44.1 mg/kg DRY L.12 mg/kg C9/1_/02 10:5 62M 3 18 CUPPER CF/11/02 10:542M B IE SHEAS Nethod 6013 15.8 ag/kg DRY LLAR mg/kg SICKEL 04/11/02 10:56EN RIR SWA46 NELDING 6013 122. mg/kg DEY 1.27 Mg/kg T EAD 1.27 mg/kg 09/11/02 10:56EM 3 IR ARTIMONY SW846 Method 6010 NO ng/kg DRY 5W845 Nethod 6010 #O mg/kg DRY 1.27 ng/kg C9/11/02 10:56RM 3 & **ELENIUM** THALLION SWELE Nothod 6013 NO mg/kg DRY ::.12 mg/kg C9/11/02 10:56AM 3 & PING SWEAR Method 6013 209. mg/kg DAY ...13 mg/kg C9/11/02 10:5 EM 3 B C9/11/02 01:43PM J J VERCORY SW846 Nethor 7471 0.330 mg/kg DRY 0 113 mg/kg N NITROGODINETHYLANINE C9/11/02 02:55PM A E EPA vethod 5276 NO MA/KE DILY 275. ug/kg DIS(2 CILOROETHYL) ETHER EPA Method 0270 so ug/kg DRY C9/11/02 02:55PH A IL ::27. ug/kg 1.3-DICHLORORENZENE EPA Method 6370 No ug/kg DRY -34. Ug/kg C9/11/02 02:550M A E 1, 4-DICHLOROBENZENE EPA Method 6270 ND ug/kg DRY 177. ug/kg C9/11/02 02:55PN A R BENZYL ALCOHOL EPA Mathod 6370 C9/11/03 03:55PH A B ise. ug/kg HO LG/KG DRY 1.3-DICKLOROBENZENE SEA Method \$370 NO ug/kg DRY 174. ug/kg CP/11/02 03:55PM A B RIS (3-CHLORGISOPROPYL) ETHER CPA Method E370 HO ug/kg DRY :32. ug/kg CF/11/02 03:55PM A R N-MITHURG-D_-B-PRCPYLAM_NE EFA Method 6370 NO HO/KG DKY C9/11/02 03:55PM & 8 152. Ug/kg нехасньомо етнаке EVA Xethod \$270 אט עם/אס נואצ : UL. UG/KG CV/11/02 US:SSON A U NITROBENZENE EPA Method 6279 no ug/kg ony iii. ug/kg C9/1-/02 02:55PM A. B. EPA Method #270 ISOPHORONE so ug/kg DRY 74 . un/km C#/11/02 02:55PM A: 0 PENSOTO ACTO EPA Vetilized 6276 ∙энс иў/kў 69/17/03 03:55PN ALK

A result of "uc" indicates the concentration of the analyte tested was either not detected or below the Rist Definitions: NC=not detected; NSG=negative; PDS=positive; CDL=colonies; RLs=laboratory reporting limits; L/A=laboratory acciden TNTC-toc numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.

All chalyris, except field tests are conducted in Southampton, PA unless otherwise identified.

The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southarpton (KELAP) PADER 05-131,NJDEP PALSE. FIN-HELAE labe: Wind Cap-NJ PRODI. Alltest-MJ 02015, Vineland-MC 06005;PA 66-530.

All samples are collected as "grab" samples unless otherwise identified.

Page 1 of 24

Unscriminged topy



69/16/02 02:26pm

A000-4	ie associates pa	P.C.C Diskq	No: 1122-E444 No:	lov. No:	
Sample Mumber Sample Descrip	etion		ace/lite/Temp 2 10:Clam NAPP	Sampled by Customer Sampled	
Paranet st	Me t bad	Result	RLs	Test Date, Time, Ausly	
215 (2-ITELORDETHORY) METHANE	EPA Method €270	NO UG/KG DRY	130. Ug/kg		
1, 4, 4-TEICHLORGSENZENR	EPA Yethod 6270	NO HG/kg ORY	192 iig/kg		
NAPHTHALENS	EPA Method 6370	#D uy/ky DRY	.131 . ug/kg	C9/11/02 02:55PM A 32	
4 - CHLERGANILINE	EPA Method 6270	no ug/kg DAY	::140 ug/kg		
HEXACHLOROBUTADIENE	EPA Method 6270	HD ug/kg DRY	050 . ug/kg	C9/11/02 02:55PM A IB	
1-NETHYLNAPHTHALENE	EPA Mathod 6270	ND ug/kg DRY	:,300 ug/kg	C9/11/02 07:55PM A 18	
HEXACHLOROCYCLOPENTADIESE	BPA Method 8370	ND ug/kg DRY	"sa. ug/kg	C9/11/02 03:55PN A IB	
1 - CHLCRONA PHTHALENE	EPA Method 6270	NO ug/kg DRY	1.17. ug/kg	09/11/02 02:55PH A B	
2 NITHDANILINE	SPA Method 0270	MD ug/kg DRY	:76 ug/kg	C9/11/02 02:55PH A D	
SENCTHE PHINIAGATE	CPA Method 6270	NO ug/kg DRY	: 34. ug/kg	C9/11/02 02:558H A IS	
ACERACHTHYLENS	EPA Method 6270	NO ug/kg DRY	114. ug/kg	C9/11/02 03:510M A E	
1, 6-DINITROCCLUENE	EPA Method 6270	NO US/KE DRY	;34 . ug/kg	C9/11/02 02:550H A 12	
1-NITROANILINE	RPA Method 6270	ND ug/kg DRY	1100 ug/kg	C9/11/02 07:55PM A &	
ACEHACHTHENE	SPA Method E270	NO ug/kg DRY	:15. ug/kg	C9/11/02 02:55PM A 8	
LUCNEGRUKAN	EVA Method 6270	no nd/kd nex	16. ug/kg	C9/11/02 02:55PM A 8	
3 - 4 - DIB PIROLULUENE	EPA Method W270	אט עק/אק טאצ	.LU, ug/kg	CANTANA GAIRPHA W R	
TIETHYLCHTHALATE	EPA Method \$270	NO ug/kg DRY	145. Ug/kg	C9/11/02 02:55PM A: B	
C-CHLCROPHENYL PHENYL ETHER	EPA Method 6270	no ug/kg ony	(43. ug/kg	C9/11/02 02:53PM A: B	
FLUCRESE	EPA Xethod 6270	NO UG/kg DRY	:32. ug/kg	C#/1_/02 02:55PH A: B	
4-HITTGENTTINE	SPA Yeilind 8370	nn ug/kg nay	556 Hg/kg	69/11/03 03:55PH ALE	
1.2-DIPPENYLHYDRAFINE	FPA Yethod 6370	NO ug/kg DBY	175 , ng/kg	69/11/03 03:55PM AIR	
N-MITROSOD IPHENYLAMINE	ERA Method 6270	NO ug/kg DAY	::67 . ug/kg	C9/11/02 02:53PH A(6	
4- BROMOPHENYL PHENYL BIHER	EFA Method 6270	ND ug/kg DAY	:50, ug/kg	C3/11/02 02:55PH A) 5	
HEXACHLOROBENSERE	EPA Method 6170	ND UG/KG DEY	:50, ug/kg	C9/11/02 02:55PM AI 3	
FHENANCHRENE	EPA Method 8270	ND dg/kg DRY		·	
AUTHACONE	BPA Method 6270	ND ug/kg DAY	· 50. ug/kg : 34. ug/kg	C9/11/02 02:55PM AF3 C9/11/02 02:55PM AF3	
CARDAGOLE	EPA Method 0270	BO ug/kg DAY	: 10C ug/kg	•	
CAMERICAN CONTRACT TE	EPA Method 6270	NO MA/KA DEA		C9/11/02 02:55PM A(3	
FLUGRANTHENE	SPA Method 6270	NO ug/kg DRY	: 71. ug/kg	C9/11/03 03:55PM AE3	
3 ENEISIKE	EPA Method 6270		137. ug/kg	C9/11/02 02:55PM AE1	
FYRENE	SPA Method 6270	HO Ug/kg DRY	1(70C ug/kg	C9/11/03 03:55PM AE:	
BUTYL BENZYL PHTHALATE	EPA Method 6270	ND ug/kg DRY	: 79 . ug/kg	C9/11/03 03:55PM AE:	
1.3'-1_CHLORCHENEIDINE	EPA Method 6270	BO ug/kg DRY	17. ug/kg	C9/11/02 02:55PH AEI	
SENSO (A) ANTHHACERE		NO TALKA THE	li ioc ug/kg	CA\T705 05:22bW VF!	
TKEYSENE	EPA Method \$270 EPA Method \$278	מט עק/אק טאצ	: 17. ug/kg	CANTANA CATERNA WEL	
IS(2-ETHYLHEXYL) FHTHRLATE		HO UG/Kg DAY	534. Ug/kg	CS/L_/02 02/51PH AEL	
= 15 (EPA Method 6270	2500 ug/kg DRY	∓չ1. աց/kց	C9/11/02 02:55PH AE:	
- C - Carl Flags Indian Co.	SPA Yellod 6379	∦N ug/kg DRY	∃iA. uy/ky	G\$/1"/Q2 Q2:55PM AR;	

A result of "MC" indicates the concentration of the analyte tested was either not detected or below the nLs. Definitions: NC-not detected; MEG-negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/k=laboratory accident INTC-tes numerous to count

All samples are collected as "grab" samples noises otherwise identified.

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Unserialized Copy

A result marked with "DRY" indicates that the result was calculated and reported on a dry sight basis.

All analysis, except field tests are conducted in Southampton, FA unless otherwise identified.

This test pH lab is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

Actual biness of analyzes for parameters reported <30 hrs are available upon request. All thicking is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southeappton (KELAP) PADER 09-131, NUMER PALES. HIM-MELAS labor. Wind Cap-NJ PAGEL, Alltest-nu ozois, Vineland-no osocs; PA 66-590.



09/16/02 02:26pm

Acrount No: BOOLSS, WHITEST Project No: BOOLSS, WHITEST	one associates pa one associates pa	<u>.</u>	C.D. No. 9 102-1444 PASID No.	Int. No:
Sample Mumber Sample Descy 1941115-1 MP02-5464-31			amp. Date/1.me/Temp 9/05/02 10:00am NZ°F	Sampled by Customer Sampled
parameter	Method	Result	RLs	Test Cate, Time, Usaly
25MIO (B) FL DORANTHENE	EPA Method 6370	#D ug/kg Df		CP/11/02 02:55PM 158
PENSO (E) FT. MORANTH FRE	EPA Vethod 6270	NO lig/kg OF	ty 304, ug/kg	64/17/02 03:55PM \ER
22N2O (A) PYRENE	EPA Method 8170	HO uy/ky DR	LY 457. uy/ky	C9/11/02 02:55PM NEB
INDENC (1.2, 3-CD) PYREME	EPA Method 6270	an ug/kg of	Y 245. ug/kg	C9/11/02 02:55PMEB
SIBERZ (A, H) ANTHRACENE	EPA Method 8270	NO ug/kg DR	Y 216. ug/kg	C9/11/02 02:55PMEE
Benzo (G. H. I) FERYLEUE	EPA Method E270	NO ug/kg DR	1Y 257. ug/kg	C9/11/02 02:55PNEB
HEXADECANOIC ACID	EPA 3270 Library Search	2660 JN ug/kg DR	Y	C9/11/02 02:55PH . 28
CHEROWH - 1	EPA 3270 Library Search	5163 J ug/kg DR	Y	C3/11/02 02:55PM . BB
SUDSTITUTED FAM 1	GPA 0278 Library Scarch	2130 J ug/kg DR	Y	E9/11/02 02:55PH . ED
URKNOWN ALKANE 1	EFA 0270 Library Scarch	1263 J ug/kg DR	Y	C9/11/02 02:55PM / ED
CH KHO MH - 2	EPA 9270 Library Search	1323 J ug/kg DR	Y.	CO/11/02 02:550M / 88
CHKNOWN ALKANE-2	ETA 2270 (ibmry Search	2512 J ug/kg DR	Y	C9/11/02 02:55PM / EB
CHKNOXA VEXVNE-3	EPA 3270 Library Search	1033 Jug/kg DR	Y	C9/11/03 03:558H / CB
CHRHOM ALKANE-4	EPA 3270 Library Search	1383 J ug/kg DR	¥	09/11/02 03:55PH J EB
CHINDAN ALICANE-S	EPA 9200 Library Search	אם אם wg/kg או מענצ	¥	C9/11/02 U3:55## / EW
LERNIAH ALJANE-6	EPA VUVO EIBRETY BEATCH	1240 J ug/kg DK	×	CA/17/03 03:PPM 158
SUBSTITUTED FAM-2	EPA #270 Library Search	1203 J ug/kg DR	¥	C9/11/02 02:55PM / CB
CHENORN - 3	EPA 3270 Library Search	2560 J ug/kg on:	¥	E9/1_/02 02:55PM / EB
CREMONN - 4	EPA 3270 Library Search	1493 J ug/kg DA		CA/12/02 02:55PM # EB
CHENONN-5	EPA 8270 Cibrary Search	ARA Tug/kg nat		C9/11/02 02:55PM # 68
CHERONA - E	FPA 8270 (ibrary Search	1340 Jug/kg DRY		69/11/02 02:55PM A.RR
CHLORGHETHARE	EPA Method 6360	NO ug/kg DAS		C9/10/02 02:50PH SSP
VINYE CHLORIDE	EPA Method 6250	ND ug/kg DRI		C9/10/02 02:50PM NSP
BROHOMETHANE	EPA Mothod 6260	NO ug/kg DAY		C9/10/02 02:50PM % SP
CHLORGETHANE	EPA Method E260	NO ug/kg DRY		C9/10/02 02:50PM 33P
1,1 DICHLORGETHENE	DPA Method 0300	ND ug/kg Dhy		C9/10/02 02:50PH H IP
ACETONE	CPA Method 0260	ND ug/kg DRY		C9/10/02 02: SOPM N &P
CARBON DISCLFIDE	EPA Method 8360	ND ug/kg DRY		CD/10/02 02:50PH N IP
METHYLENE CHLORIDE	EPA Method 6260	NO UG/KG DRY		C9/10/02 02:50PM N :P
TRANS-1, 1-Dichlorcethene	EPA Method 6360	HD ug/kg DRY		C9/10/02 02:80PM X :P
ACROLEIX	EPA Method 6260	NO US/KS DRY		09/10/02 02:50PM N P
ACRYLCH ITR ILE	EPA Method 6240	NO UN/kg DRY		C9/10/02 03:50PM N :P
1,1-DICKLORUETHANE	EFA Method EReu	NO UG/KG DKY		CA/10/03 03:205W N IN
AINAT VORLAGE	MPA Method Wasu	אט עק/אַק טאַצ		EN/10/03 03:200M H IV
Tis-1,3-dichiqaosthene	EFA Method 6260	ZD ug/kg DRY		C9/10/03 03:50PM N IP
2-Butanche	EPA Method #260	ND ug/kg DRY		CP/10/02 02:50PM N F
SHIORGFORM	EPA Veilloid #760	NO ug/ky DRY		61/10/02 02:50PM Y P

A result of "HD" indicates the poteentration of the analyte tested was either not detected or below the RLs. Definitions: NC-not detected: MEG-negative: PDG-positiva: COL-colonies: RLs-laboratory rescriting limits: L/A-laboratory acm: den INTC-too numerous to sount
A result marked with "DRY" indicated that the result was calculated and reported on a dry s right basis.

All samples are collected as "grab" samples unless otherwise identified.

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Unserialized Copy

All analysis, except field tests are conducted in Southappon, FA unless otherwise identified.

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Actual times of analysis for parameters reported <30 hrs are available upon request. All taking is completed within the require holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southarpton (NELAP) PADER 09-131, NUDER PALSE, NON-NELAP labe: Wind Cap-NJ PRO01, Alltest-6J 02015, Vineland-8C 05005; PA 86-530.



09/16/02 02:26pm

Account No: BOOLDS, MHITESTON Project No: BOOLDS, MHITESTON	ie associates pa Re associates pa		1442-607' 16K C.O 16H GIRKS	Iny. No:
Sample Number Sample Descrip 1961115-1 WPO2-5644-21	rtiac		Samp. Dict,"ine/Temp 09/05/02 10 Joan MAPF	Sampled by Customer Sampled
Paramet ET	Me ; had	Result	ALS:	Tes: Cate, Time, Analy
1 1,1-TRICHLOROETHANE	EPA Nethod #260	BO UG/KG		C#/10/02 02:30PM NEP
CARRON TETRACHIORIDE	RPA Vethod 6360	א⊓ нg/kg	ngy 283. ug/kg	09/10/02 02:50PM 90P
BENZENE	EPA Kethud 2260	117. J uy/ky		C3/10/02 02:50PM NEP
1,2-DICHLORGETHANE	EPA Method 6360	HD ug/kg		C9/10/02 02:50PH 4EP
TRICHLOROETHERS	EFA Method 6260	no ug/kg ∣	DRY 113. ug/kg	C9/10/02 02:50PM 4EP
1. 2-DICHLOROFROPANE	EPA Method 6260	#D ug/kg :	DRY 113. ug/kg	C9/10/02 02:50PM (EP
PROMOS CHLORCHETHAME	EPA Method 6360	no ug/kg i	DRY 193. ug/kg	C9/10/02 02:50PM 1EP
2-CHECROSTHEE VINYE STHER	- EPA Method 6260	go ug/kg i	DRY 1700 ug/kg	C9/10/02 03:50PM IEP
CID 1.3 DICHLOROPROPENS	SPA Method 9200	no ug/kg (pry 200, ug/kg	C9/10/02 02:50PM 10P
4 METIYL 2 PENTANCHE	EPA Method 6360	no ug/kg l	DRY 567. ug/kg	C3/10/02 02:50PH (EP
TOLUENE	SPA Method 8360	237. J ug/kg l	DRY 73.E ug/kg	C9/10/02 02:50PH (EP
TRANS-1, 3-01CHLORCPROPENE	EPA Method 6260	NO ug/kg [DRY 203. ug/kg	C9/10/02 02:50PM EP
1.1.2-TRICHLOROSTHANS	MPA Method 6360	No ug/kg t	DAY 73.6 ug/kg	C9/10/03 03:50PM EP
TETRACHLORGETHENE	EPA Method 6260	#O ug/kg [DRY 133. ug/kg	C9/10/02 02:50PM 'EP
2-HEXANGNE	MPA Method 6960	ии ug/kg t	okk "OH: ug/kg	62\10\03 03!PANW
THEROSOCHLORORETHERE	EPA Xethod 6260	NU ug/kg L	их 203. ug/kg	· CY/10/02 U3:50PM CP
THLORGERNZ ENE	EPA Xethod 6260	No ug/kg 1		C9/10/02 02:50PM : EP
ETHYL BENZINE	EPA xethod 6260	201. J ug/kg 5		C9/10/02 02:50PM : EP
XLP-XYLENES	EPA xethod e260	279. J ug/kg C		C9/10/02 02:50PM : EP
5 - XVI.FD B	FPA Verlied \$760	אה מע/גע ד		69/10/02 02:50PN 15P
FTYRENE	EPA Vethod 6260	кл ид/kg л	.	C9/10/03 02:50PM \ RP
2ROHQ FORM	EPA Method 6260	ND ug/kg D		C9/10/02 02:50PH : EP
1.1.2.2-TETRACHLOROETHANE	EPA Method #260	ND ug/kg D		C9/10/02 02:50PH : EP
1 3-DICHLOROBENSENS	EPA Method 6360	ND ug/kg D		C9/10/02 02:50PM > EP
1.4-DICHLOROBERSENE	EPA Xethod 6260	NO ug/kg D		C9/10/02 02:50PM > CP
1, 2 DICHLORODENSENS	EPA Method G200	ND ug/kg D		C9/10/02 02:50PM NEP
STRUTTYLDENSENE LOCHER	EPA 5268 Library Search	739. J ug/kg D		C9/10/02 02:50PM N 3P
CHIMONN AROMATIC	EPA 3060 Library Search	eac. Jug/kg D		75 K M705.CO 20\01\02
TETRAMETHYLBEHZENE ISOMER-1	EPA 8260 Library Search	796. J ug/kg D		C9/10/02 02:50PM N 3P
TETRAMETHYLBENIENE ISONER-3	EPA 3360 Library Search	768. Jug/kg D		C9/10/02 03:50PM X ?P
NAPHTHAL EN Z	EPA #360 Library Search	1540 WJ ug/kg b		C9/10/02 03:50PM N IP
TOTAL SOLIDS PERCENT	STD Methode 18th Ed. 35400	FF.24 4	0.3:306 4	C9/09/02 D4(20PH J;

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: MD-not detected; MEG-negative; POG-positive; COG-colonies; RLs-laboratory reparting limits; L/A-laboratory acc: des TNTC-toc numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry wright basis.

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Actual times of analysis for parameters reported 430 hrs are available upon request. All tisting is completed within the requir holding time unless otherwise noted..

QC inc's laboratory certification in's are; wonthampton [kimar] wanth un-list, while walks, som-we are laber wind dap-so vacual, Alltest-NJ 02015, Vineland-NC 05005/PA 68-580.

All simples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:26pm

Account No: Bo Project No: Bo	,	e associates pa le associates pa			.c.o Glekg	No: 19:32-5444 No:	Int. Ro.
Sample Number 1941115-2	Sample Descrip 5444-84 xeceived limp:	t roc				ace/% me/Temp 2 12:11pm NAPE	Sampled by Customer Sampled
Paranet II		Me : bod	Result			RLs	Test Date, Time, Audi
FILMER		SWB46 Nethod 6010		ng/kg		.37 mg/kg	CA/1./US 10:288W 278
ARSENIC		SM846 Nethod 6013		ny/ky		:32 mg/kg	C9/11/08 10:36AH 3 LB
HULLIYAGE		SW846 Nethol 6010		ng/kg		3 261 ng/kg	C9/11/03 10:56RM 3 M
CADMICM		SW846 Nethor 6010		ng/kg		1 529 mg/kg	C9/11/02 10:56RM 3 IB
CHRONIUM		SW845 Netbod 6013	13.6	ng/kg	DRY	.32 mg/kg	59/11/02 10:56KM 3 &
COPPER		SWEAS Method 6013	31.6	ng/kg	DRY	:.32 mg/kg	C9/11/02 10:56AM 3 B
MICKEL		SM846 Method 6013	19.3	ng/kg	DRY	1,32 mg/kg	C9/11/02 10:55AM B B
L BAD		OWO46 Nethod 6013	156.	ng/kg	DRY	:.GE mg/kg	C2/11/02 10:56AH 3 D
ARTINCHY		DW046 Nethor 6012	90	ng/kg	צומ	;.65 mg/kg	C9/11/02 10:5GAN 1 D
BELENIOM		SW#46 Nethoc 6010	OK	ng/kg	DRY	1.65 mg/kg	C9/11/03 10:56RN B. F
THALLIUN		SW846 Netto: 6013	ND	ng/kg	DRY	32 mg/kg	CD/11/02 10:56AH 3.8
ZINC		SW845 Nethod 6013	155.	ng/kg	DRY	35 ng/kg	C9/11/03 10:547M 3; B
MERCURY		SW846 Hethod 7471	0.299	ng/Kg	DRY	(* 132 mg/kg	C9/11/02 01:43PM J/D
N-NITHOUGH IME	THYLANINE	EVA Xethod 6270	טא	ug/kg	TH'A	: 22 . ug/kg	GA\T7\63 63*3A6W V!R
HIS (2-CHIMHOE	THYL) ETHER	EPA Method 9270	nu nu	ug/kg	DK &	: 17. ug/kg	GA\TT\OS GS#38NW WIR
1 3-DICKLOROS	eniene Eniene	EPA Method 6270	DK OK	ug/kg l	DRY	107, ug/kg	C#/11/02 03:35PM A(B
1,4-DICELORUE	enzene	EPA Method 6270	80	ug/kg i	ORY	: 23 . úg/kg	C\$/11/02 03:39PM AES
BENEYL RECONC		spa xethod 6278	NO	ug/kg i	ORY	. Lisa ug/kg	CP/1_/02 #3:39PM At 3
1,2-DIGHTARDE	ENAFINE	EPA Veilland 4270	MA	ug/kg l	DRY	ris. ny/kg	G9/11/02 03:39PM RES
RESIDENCE OF CRITE	SOPECPYI.) FTHER	EPA Yethod 6378	HU	ua/ka i	DRY	:sa, ug/kg	FRA MOREIER COLTINO
N-NITROSO-DI-	9-PRCPYLAMINE	EPA Method 6370	Dis	ug/kg i	となり	773. ug/kg	C9/11/03 63:39PH AES
HEXACHLOROSTHA	an E	EFA Method 6370		ug/kg (: 10. ug/kg	C9/11/02 03:39PM AEE
MITROPENSENE		EPA Method 6370	OR	ug/kg (DRY.	3:13. ug/kg	C9/11/03 03:39PH AE:
ISOPHCRONE		EPA Xethod 6270		ug/kg (305. ug/kg	C9/11/02 03:39PM AE3
DIDA DIOSHEC		EPA Method 6276		ug/kg (3'9C ug/lig	C9/11/02 03:39PH AG1
DID(2 CILOROET	uiox X) metiiyne	EPA Mcthod 6270	NO 1	ug/kg [NY.	1:0. ug/kg	C9/11/02 00:39PH AET
1, 2, 4-CRICHLOR	Lobenzene	EPA Method 9370	NO .	ug/kg E	RY) 2. ug/kg	CO/11/03 03:30PM AE:
NAPHTHALENS		EPA Method 8370	801. J	uq/kg [RY	1:0. ug/kg	C9/11/02 03:39PM AE .
4 - CHLCROANILIE	P	EPA Mechad #370	80 (ug/kg D	RY	1:30 ug/kg	C9/11/02 03:39PM AE
HEYACHLOROBUTA	DIENE	EPA Method #370	HD :	ug/kg D	RY	::0. ug/kg	C9/11/02 03/34PH AE
1 - NETHYLKA PHTH	NTENE	EPA Method 6270	299. J 1	49/kg D	東 文	LITC ug/kg	C9/11/02 03:39PM AE.
HEXACHLOROCYCL	OVENTAUL ERE	EFA Method 8370		ig/kg u		1.U. ug/kg	U9/11/03 03:39PR AB:
3 - CHLCKONA PHTH	ALUNE	EVA Method 6270		ıg/kg u		tit. ug/kg	CA\JT\OS GS!SANN WEL
2-NITRORNILINE		EPA Method 6270		in/kg D		ec ug/kg	ER/11/03 03:38PH AE
CINETHYL PHONA	late	EPA Method #270		נק/kg מ		0'3. ug/kg	C9/11/02 03:389M AEL
ACKNAFKTHYT.ENE		FPA Yellind 5370		u/kg n		tion au/kg	G9/1"/02 03:39PM A72
A. K-DINTERIOTISM	CIPM S	EPA Yes, had 6270		u/kg D		tint ug/kg	G9/11/02 83:39PH ART

A result of "MC" indicates the concentration of the analyte tested was either not detected (if below the RDs. Definitions: NE-not detected, NGC-negative, POG-positive; CCL-colonies; Rus-laboratory repersing limits; L/A-laboratory accidus INTC-toe numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.

All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.

The test ph labels analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. actual times of analysis for parameters reported stu hre are available upon request. All the ing is completed within the requir holding time unless otherwise noted...

QC inc's laboratory certification ID's are: Southampton [MELAP] PADER 09-131,NUDER PA166, NOT-MELAF laber wind Cap-NJ PACOL, Alltest-NJ 02015, Vineland-NJ 06003;7A 68-530.

Al' samples are sullanted as "grain" samples unless utherwise (lent.ified.

Page 3 of 24

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1305 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-39(.) Fax: 215-355-7231



09/16/02 02:26pm

Account No: 800195, WHITESTON Project No: 800195, WHITESTON	e associates pa	.6.7 71 2 kg	, No: 1:002-E444) No:	In7. No.
Sample Number Sample Obscrip 1941115-2 5444-84	tion		Date/Cime/Temp /02 15:10pm NA*F	Sampled by Customer Sampled
Paraget ST	Method	Result	RLs	Test Cate, Time, unally
3-NITROANILINE	EPA Method 6270	#D Ug/kg DRY	12ec ug/kg	CS/12/03 93:39PM LOS
ACRULENTHENE	RPA Vethod 6370	334 Ting/kg DRY	251. lig/kg	69/11/03 03:39PM (ER
CIBENZOFURAN	SPA Method 8270	ND uy/kg DRY	1376 uy/ky	C9/11/02 03:392M (EB
2.4-DIMITROTCLUENE	EPA Method €270	ND ug/kg DRY	323. ug/kg	C9/11/02 03:39PM (EB
I STHYLFHTHALATS	EFA Kethod 6270	NO ug/kg DRY	196. ug/kg	C5/11/02 03:35PM .EB
4 - CHLCROPHENYL PHENYL ETHER	EPA Method 6270	NO ug/kg DRY	234. ug/kg	C9/11/02 03:39PMEB
FLUORENE	EPA Method 6170	311. J ug/kg DRY	271. ug/kg	CS/11/02 03:39PMEB
t-HITROANILINE	EFA Method 6370	NO ug/kg DRY	2160 ug/kg	C9/11/02 03:33PM2B
1.2 DIPHENYLHYDRAZINE	GPA Method G270	ND ug/kg DRY	321. ug/kg	C9/11/02 03:39PMED
N NITRODODIPHENYLAMINE	EPA Method 6270	HD ug/kg DRY	312. ug/kg	C9/11/02 03:39PM . EB
4-BROMOTHENYL THENYL STHER	EDA Method E270	NO ug/kg DRY	202. ug/kg	C9/11/02 03:39PM EB
HEYACHLOROBENSENE	EPA Method 8370	NO UQ/KG DAY	530. ua/kg	C9/11/02 03:30PM / EB
PHENANTHRENE	EPA Method #379	1560 ug/kg DRY	537. ug/kg	C9/11/02 03:39PM / EE
ANTHRACENE	EPA Method E270	493. J ug/kg DRY	331. ug/kg	C9/11/02 03:39PM / EB
CARMAZULE	MAA Method Wayo	480. Jug/kg UKY	1200 ug/kg	C9/11/02 03/39PM / EM
II - H - BUTYL PHTHALATE	EPA Method 8270	HD OG/KG DHK	lia, ug/kg	C9/11/02 03:399M / 88
FLUORANTHENE	EPA Method 6378	1600 J ug/kg DRY	511. ug/kg	CP/11/02 03:39PM / CB
BENITIKE	EFA Method 6270	no ug/kg bay	250C 11g/kg	C9/11/02 03:398M / EB
FYRENC	EFA Method 6270	Tata a malkd per	125. ug/kg	C9/11/02 03:399M # EB
PUTYT, RENZYT, PHTHATATE	SPA Yethod 5270	HO HU/ky DRY	455. 897kg	G9/11/02 03:39PM AEB
3,34.0T CHI/ORCRENETD INE	EPA Yethod 8370	NO lig/kg DRY	1270C 11g/kg	09/11/03 03:39PM 4 RM
BENSO (A) ANTHRACENE	EPA Method 6370	791. Jug/kg DRY	592. ug/kg	C9/11/02 03:35PM FEB
CHRYSENS	EPA Xethod 6270	741. Jug/kg DAY	276. ug/kg	C9/11/02 03:39PM A 58
319(2-CTHYLHEXYL) PHTHALATE	EPA Method €370	1700 ug/kg DEY	259. ug/kg	C9/11/02 03:35PM A 5B
II-N-CCTYLPHTHALATE	EPA Method 6270	NO ug/kg DRY	626. ug/kg	C9/11/02 03:39PM A 38
denso (b.) Fl. doranthiene	SFA Method 0370	GOS. Jug/kg DRY)71. ug/kg	C9/11/02 03:39PH A 20
Denzo (r) fluoranthers	GPA Method 0270	G40. Jug/kg DRY	155. ug/kg	C9/11/02 03:39PM A 3D
BENSO (A) PYRENE	DPA Method 6370	716. Jug/kg DRY	314. ug/kg	C9/11/02 03:35PH A 38
INDENC(1,2,3-CD) PYRENS	EPA Method 6270	291. Jug/kg DRY	196, ug/kg	C9/11/02 03:39PM A IL
DIBENS(A, H) ANTHRACENE	EPA Method 9270	ND ug/kg DRY	137 ug/kg	E9/11/02 03:39PM A 22
ZENZO (G, H, [) FERYLENE	EPA Method \$370	304. Jug/kg DRY	100 ug/kg	C9/11/02 03:39PM A 3
HEMADECANOIC ACID	EPA 8370 Library Search	15000 JN ug/kg DRY	2/13	C9/11/02 03:39PM A 2
CCTADECARGIC ACID	EPA 9270 Library Search	שאט אא עק/אַ איז		CA/IT/05 D3:3Aby V T
SARRITAGIED EW	MAN WHOM Library Bearch	Tenn 1 nd/kd nkt		CA/17/03 03:338M V M
CHKNOWN ALKANS-1	EPA 9270 Library Search	3133 Jug/kg bay		C#/11/02 03:34PM A 18
CHPHOXH ALKANE-1	EPA 9270 Library Search	2003 Jun/km DRY		CS/11/02 03:399M A M
CHMMONE ALTENETS	RPA ARTA Library Search	4873 Jug/ky DRY		
	sen consty smith	•ята з иу/ку пкч		09/11/02 03:39PM # JK

A result of "HE" indicates the concentration of the analyte tested was either not detected or below the RES. Definitions: MC-not detected; MSG-negative; PDS-positive; CDL-colonies; RLa-laboratory reporting limits; L/A-laboratory acc. den TMTC-tos numerous to count

A recult parked with "DRY" indicates that the result was salculated and reported on a dry seight basis.

All analysis, except field tests are condusted in Southangton, the result may not be suitable for regulatory purposes.

And the test ph labers analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

Actual times of analysis for parameters reported 430 has are evailable upon request. All lesting is completed within the requirements of the suitable of the suitable upon request. holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southampton (KELAP) PADER 05-131, NJDEP FALSE, ICH-MELAS laber Mind Gap-NJ PAGGI, Alltest-MJ 02015, Vineland-MJ 08005; PA 68-530.

All samples are collected as "grab" samples unless otherwise identified.

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09/15/02 02:26PW

	ONE ASSOCIATES PA		C.3. No. NIO2-5444 No: CIENS	IG7. No:
Sample Number Sample Descri			Samp. Date/Inme/Jeng 09/05/02 12::0pm MA*F	Sampled by Customer Sampled
Paranet = T	me z bad	Result	RLS	Tes: Date, Time, maly
CHENOXE ALCANE-4	EPA 32TO LIBERTY SEATTH	3843 J ug/kg	DRY	C9/11/02 03:39PMEB
CHRNOCH ATTANN-S	EPA ARTH Tiberry Search	4535 J ug/kg	DRY	09/11/02 03:34PM <i>FR</i>
CHINOKH ALKANE-6	EPA 3270 Cibrary Search	4390 J ug/kg	DAY	C9/11/03 03:39PM .EB
CHENORE ALKANE-7	EPA 9270 Library Search	4385 3 ug/kg	DRY	CS/11/02 03:39PM . EB
UNKNOWN ALKANE-6	EPA 5270 Library Search	3400 J ug/kg	DRY	C9/11/02 03:19PM . ES
CHENOXH ALKANE-9	EPA 3270 Library Search	2450 J ug/kg	DRY .	C9/11/02 03:39PM / EB
CNINOXN	EPA 3270 Library Search	1770 J ug/kg	DRY	C9/11/02 03:39PM / EB
UNKNOWN ALKANE-10	EPA \$270 Library Scarch	1330 J ug/kg	DRY	C9/11/02 03:398M / 88
CHLORCHBEIANE	SPA Method 6360	NO ug/kg	DAY 3.97 ug/kg	C9/09/03 10:09PM : EP
VINYL CHICATOR	GPA Method 0360	dD ug/kg	DRY 9.93 ug/kg	09/09/02 10:09PM : EP
ROMONSTHANE	EPA Method 6260	ND ug/kg	DRY 13.2 ug/kg	C9/09/02 10:09FM 3 EP
CHLORCETHANS	EPA Method 8060	ND ug/kg	DRY 3.97 uq/kq	C9/09/02 10:090M : ED
1, 1-DICKLORGETHENE	EPA Method #260	NO ug/kg	DRY 3.65 ug/kg	C9/09/02 10:09PM > EP
ACETONE	EPA Method 6260	NO ug/kg	DRY 19.5 ug/kg	C9/09/02 10:09PM) EP
CARRON DIRECTOR	EFA Kethod EXtu	3.VO J ug/kg	UKY 1.31 Ug/kg	CA\CA\CA TO!CARM 2 ER
METHATER & CHICKLOFF	MAN Method even	57.0 ug/kg	UKE 1.97 ug/kg	C9/09/02 10:09PM 5 PP
Trans-1, 2-dichlorcethene	EPA Method #260	որ աց/kg	DRY 1.99 ug/kg	C9/09/02 10:09PM 7 66
ACROLEUK	EPA Method 6368	#D ug/kg	DRY 19.5 ug/kg	C9/09/02 10:09PM X EP
ACRYLOWITRILE	EPA Xethod 6360	#D ug/kg	DRY 13.5 ug/kg	E#/09/02 10:049M X EP
1,1-DICFIOROFTHANE	SPA Vetlue) 6364	មក កម្ម/kg	DRY 5.34 mg/kg	G9/49/62 TOLOSPH VSP
VINYT, ACETATE	RPA Yethod 8360	ND ug/kg	DRY 13.7 mg/kg	C9/09/02 10:09PM VSP
CLS-1,3-DICKLORGETHENE	EPA Method 6260	NO ug/kg	DRY).31 ug/kg	C9/09/02 10:09PM X SP
2 - BUTANONE	EPA Method 6168	NO ug/kg	DRY 13.2 ug/kg	C9/09/02 10:09PM N SP
CHLOROPORM	EPA Method 6360	NO ug/kg	DRY 1.25 ug/kg	C9/09/02 10:09PM N 2P
1, 1, 1-TRICHLOROETHANE	EPA Method #260	ND ug/kg	DRY 1.95 ug/kg	C9/09/02 10:09PM N :P
CARDON TETRACHLORIDS	EPA Method 0300	NO ug/kg		C1/09/02 10.09PM N 2P
Dencemb.	SPA Method G366	ND ug/kg l	DRY 3,25 ug/kg	C9/09/02 10:09PM N :P
1, 2-DICKLOROETHANE	EPA Method E360	NO ug/kg i	DRY :1.95 ug/kg	C9/09/02 10:090M N IC
trichloroethene	EPA Method 6360	ND ug/kg i		C9/09/02 10:09PM N :P
1,3-dichlorofropane	EPA Method 6360	ND ug/kg I		C9/09/03 10:09PM N :P
gronoti chlorometham e	EPA Method E260	ND ug/kg (C9/09/03 10:09PM N :P
3-CHECROSTRYL VINYL STHER	EPA Method #260	ND ug/kg t		C9/09/02 10:09PM X :P
CTR-1'3-DICHTOKOKKOK EME	EFA Method E260	ոս ug/kg լ		CA/0A/03 10:035W X 35
6 - METALF - 3 - NF BLYMCH E	EPA Method 8260	שט עק/kg נ		עי א אפעטיטב פט/פט/פט
TOLUENE	EFA Method 6268	No ug/kg s		C8/09/02 10:09PH N P
Trans-1, 3-dichloropropene	EPA Method #260	אס עק/kק ב		CF/09/02 10:09PM X P
1, 1, 2-THICHIGROSTHANS	SPA Ved.lind Paca	NO og/kg o		

A result of "MC" indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: NE-not detected: NSG-negative: POS-positive: COL-colonies: RLs-laboratory reporting limits: L/A-laboratory accorden INTC-tes numerous to count

A recult marked with *DRY* indicates that the result was calculated and reported on a dry meight busis.

All unalysis, except field tests are conducted in SouthAmpton, PA unless otherwise identified.

The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Notual times of analysis for parameters reported 430 hrs are available upon request. All (setting is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southarpton (NELAP) PADER 09-131, MIDED PAISE, HEN-NELAF laber Mind Gap-NJ PAGOL, Alltest-NJ 02015, Vineland-NG-05005;PA 68-590.

All samples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:25pm

· · · · · · · · · · · · · · · · · · ·	ne associates pr ne associates pr	.C.9 Cieks	No: . P02-5444 No:	Int. No:
Sample Number Sample Descri 1941115-1 5444-84	ptior.		Date Mint/Temp Da in Hope HAPF	Sampled by Customer Sampled
parameter	Me ; bad	Result	RLS	Tes: Date, Cime, Anal
I STRACHLOROETHENG	EPA Method 6260	ND ug/kg DRY	2.65 ug/kg	C#/09/02 10:09PM 4EP
2-MEXANGNE	RPA Vethod E260	NO lig/kg DRY	13.5 ug/kg	C4/04/02 10:04PM 4EP
I I BROYO CHLORCHETHANE	EPA Method 8260	HD ug/kg DRY	1.99 ug/kg	C9/03/02 10:098M (EP
INLORGBENZENE	EFA Method 6260	HD ug/kg DRY	1.95 ug/kg	C9/09/02 10:03PM IEF
ETHYL BENZENE	EPA Method 8260	NO ug/kg DRY	1.95 ug/kg	- C9/09/02 10:09PM (EP
X4P-IXLENES	EPA Method 6260	ND ug/kg DRY	3.31 49/kg	C9/09/02 10:09PM IEP
C-XYLENE	EPA Mathod \$360	BD ug/kg DRY	1.95 ug/kg	C9/09/02 10:03PM IEP
ETYRENE	SPA Method 6760	NO ug/kg DRY	1.65 ug/kg	C9/09/02 10:09PM CP
ZROHOFORM	EPA Method 6260	ND ug/kg DRY	3.97 ug/kg	C9/09/02 10:09PM . IEP
1.1.2.2 TETRACILOROSTIANS	EPA Method 0360	no ug/kg ony	3.65 ug/kg	C9/09/02 10:09PH : PP
1, 3-DICHLORORENSENE	EPA Mathod 6360	NO ug/kg DRY	1.95 ug/kg	C9/09/02 10:09PH : Ep
1 4-DICHLORDEENSUNE	Era Method 6260	NO UG/KG DRY	1.65 uq/kg	73 : M700:01 E0\C0\c0
1. C-DICHLOROSENZENE	EPA Method 5260	NO ug/kg DRY	1.65 ug/kg	C9/09/03 10:099N : EP
CHENOXH ALKANE-1	EPA 3260 Library Search	10.5 J ug/kg DRY		C9/09/02 10:09PM : EP
UNKNOAN ALKANE-2	MAA 8240 Library Search	10.4 J ug/kg UKY		CA\0A\03 JD:0ANW ; FA
LURNOAN CYCLCALKANE-1	EPA BUSO Library Search	15. 4 J ug/kg DRY		CALANAS TOFORM FRA
CHICHOWH ALKANE-3	EPA 9260 Library Search	26.5 J ug/kg DRY		C9/09/03 10:09PM > EP
CHINORY ALKANE-L	EPA 3260 Library Search	10.2 J ug/kg DAY		C9/09/02 10:03PM 1 EP
CHYNOXH CYCLCALKANE - 2	EPA 1260 Library Search	32.5 Jug/kg DRY		CP/05/02 10:05PM > EP
CHENONE CYCLICALISANS-3	APA SAGO filmary Smarch	13.9 J og/kg DRY		C9/09/02 10:08PM \EP
CHENORA CYCLCAGRANG-4	EPA 3260 fibrary Search	13.1 Jug/kg DRY		C9/09/02 10:09PM X EP
SECANYDRONAPHTHALEBE ISOMER	EPA 1260 Library Scarth	10.2 Jug/kg bRY		C9/03/02 10:038N SEP
De Canydrometh y Lnash Thallens Isoher	EPA 3260 Library Search	11.3 Jug/kg DRY		C3/03/02 10:03PM X SP
TOTAL SCLIDS PERCENT	STO Methods 18th Ed. 2540G	75.56 \$	0.(1000 +	C9/09/02 04:20PM J3
rple Number Gample Descript 41115-3 5444-87 Received Trapt				Parpled by Natomer Sampled
raneter	Methad	Remait	3Le	Test Cate, Time, Augly
FILVER	SME45 Nethod 6013	NO mg/kg DRY	1.06 mg/kg	C9/11/03 10:56AN 3 R
JKRENIG .	SW444 Nettos 6010	6.62 mg/kg DRX	ue ag/kg	CA/IT/OR IN:PPW T'R
ERKYLL, UM	SW445 Method 5010	צאט pd/kg צאט מייע	J 217 mg/kg	CA\T_\OS IO:PEVM W W
		"7/~7 ~~~	ng/89	U 7 / 12 / U 3 10 15 6 5 F 11 12
ENDRICH	SWEAR Method spin	NO notice nev	1 434 20 00	
CHRONION	SW846 Nethod 6013 SW846 Nethod 6013	HD mg/kg DRY) 434 mg/kg :.06 mg/kg	C9/11/02 10:56RM B. E C9/11/02 10:56RM B. E

A result of "Mr" indicates the seccentration of the analyte tested was either not detected or below the RLs. Definitions: NC-not detected; NSG-negative; PDS-positive; CDD-colonies; RIs-laboratory reporting limits; L/A-laboratory acciden THTC-too numerous to count A result was saloulated and reported on a dry which basis.

All analyzis, except field tests are conducted in Southapton. FA unless otherwise identifyed.

The test-ph lab-is analyzed upon resempt at the laboratory. The result may not be suitable for regulatory purposes.

Actual times of analysis for parameters reported c30 hrs are available upon request. All toping is completed within the requirements of the complete of th

QC tac's laboratory certification ID's are: Southarpton (NELAP) PADER 09-131,NJDEP PAISE, NCN-MELAF labr: Wind Gap-NJ PADD1, Alltest-MJ 02015, VineLand-RI 05005; PA 66-530.

all samples are collected as "grab" samples unless otherwise identified.

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Analytical Results

D 5 No. 12 33-5444

09/16/02 02:25PK

Account No. BOOLSS, WHITEETON Project No: BOOLSS, MMITEETON	e associates pr	0.5.9 0.2889	No. 17 32-5444 No.	IA7. NO:
Saxple Number Sample Descript 0941115-3 5444-87	t tor.		ite/line/femp i odit)pm narf	Sampled by Customer Sampled
PAIRMET IT	Metbod	Result	ALs	Test mate, Time, somly
NICKEL	SWRAS HELDOÓ EDIJ	11.5 mg/kg oak	Los ng/kg	CA/LL/02 LO:56EM EAB
በ አዳስ	сгоя ботдык аквив	95,4 mg/kg DRY	1.17 ng/kg	69/11/03 10:548M FAR
ANTINCHY	SMOAS NELLUL 6013	KO MY/KY DRY	::.17 my/kg	C9/11/02 10:36RM EAB
SCTENION	SHEEF Method 6013	HO mg/kg DRY	11.17 ng/kg	
THALLIGH	SHAKE Hettoć 6013	no mg/kg dry	OE mg/kg	09/11/03 10:56RM ENB
ZING	SW846 Method 6013	104. mg/kg DRY	∴.D€ ng/kg	C9/11/02 10:5FAM 3 NB
MERCURY	aways Nethod 7471	ND mg/kg DRY) 10E mg/kg	C9/11/02 01:43PM J W
Bringarhiamine	EPA Method 6270	ND ug/kg DRY	: 27 . ug/kg	C9/12/02 04:232M A 38
210(2 CILOROCTIFEL) ETHER	CPA Method G270	NO ug/kg DRY	ida, ug/kg	C9/11/02 04:23PH A3D
1,5 DICKLORODENSCHE	EFA Method 6270	NO ug/kg DAY	131. ug/kg	C9/11/02 04/23PM A ID
1,4-DICKLOROPENSENE	SPA Method 6270	NO ug/kg DRY	30. ug/kg	C9/11/02 04:23PH A R
BENSYL ALCOHOL	EPA Method 6370	NO ug/kg ORY	1950 ug/kg	C9/11/02 04:230H A 12
1, 3-DICHLOROBENZENE	EPA Method 6270	NO ug/kg DRY	15. ug/kg	C9/11/03 04:33PM A B
3 (5 (2-Chloroisopecpyl) ether	EPA Method E170	NO ug/kg DRY	77. ug/kg	C9/11/02 D4:23PM A B
N- HITHOUG- U H- PRCPYLAM_NE	AVA Kethod 4270	אט עק/אק טאצ	.270 ug/kg	U9/11/02 04:23PM A 18
HEXACHLOROF HARE	EFA Method #270	no ug/kg okt	iv. ug/kg	CHATTAN GASSAN W R
NITROBENZENE	EPA Method #270	ao ug/kg der	35. ug/kg	C9/11/02 04:23PH A B
isopherone	EPA Method 6278	NO UG/KG DRY	: 32. ug/kg	C9/11/02 04:23PM A B
BENZOIC ACID	EPA Method e270	no ug/kg DRY	: 39C un/kg	C9/11/02 04:23PM A 8
PIS(2-CETGROFTHOXY) METHANE	RPA VELIGIBLE 6370	ทก ag/kg ⊓eY	2.55 mg/kg	C9/11/02 04:23PM A R
1, 2, 4 - TRICHT CROSENSERS	SPA Vethod 5770	NO HE/KE DRY	SO, lig/kg	C9/11/02 04:23PM A:R
ENSTANDAN	EPA Method #270	NO ug/kg DAY	!)7. ug/kg	C9/11/02 04:23PM A: B
C-CHECKGANILINE	EFA Method #370	NO ug/kg DRY	: Lec ug/kg	C9/11/02 04:23PM AIB
Hexachlorobutadiene	EPA Method 6170	no ug/kg Day	(19. ug/kg	C9/11/02 04:23PM ALB
3 - METHYLKA PHYNALENE	EPA Xethod 6370	NO ug/kg DRY	1 120 ug/kg	CF/11/02 04:23PM A(S
Hexachlorocyclopentadiene	EPA Method 6370	NO ug/kg DRY	JIGC ug/kg	C9/11/02 04:23PH ACS
2 Cilcrona Puthialone	GFA Method 0370	YAG PA(PU GK	415. ug/kg	- C9/11/02 04:23PM AE3
2-WITROANILINE	EPA Method E279	NO ug/kg DRY	1 17C ug/kg	C0/11/02 04:23PM A13
STALLHHU THIBMIC	EPA Method E270	NO ug/kg DRY	417. ug/ka	C9/11/02 04:23PM AF3
A CENAFHTHYLENE	EPA Method 6370	NO ug/kg DRY	1.D. ug/kg	C9/11/02 04:23PM AE3
2, 6-DINITROTCLUENE	EPA Method 6270	NO ug/kg DRY	1.7. ug/kg	C9/11/02 04:23PM AES
3-HITROAMILINE	EPA Method #370	PD ug/kg DRY	3:00 ug/kg	C9/11/02 04:23PH AT 8
ACERAPHTHENE	EFA Method 6270	מח האל מאל מא הה הה הה הה הה הה הה הה הה הה הה הה הה	41.1 ug/kg	C9/11/02 04:23PM ALI
TERENKO LOCUM	EPA Kethod 6270	HU UG/KG UKY	1.50 ug/kg	TALETTO CATANATA
2, 4-DINITROCCLUSHE	EPA Method 4279	NO UG/KG DRY	117. ug/kg	C9/11/02 04:23PH AE:
SI BINATANIHWI YIE	EPA Xethod 6270	NO ug/kg DRY	i:8. ug/kg	CP/11/02 04:23PM AE:
A-CHIGROPHRNYI, PHENYI, ETIRE	FPA Yellimil 6378	no ug/ky nev	:16. ay/ky	09/17/02 #4:23PM AT.

A result of "MC" indicates the someontration of the analyte costed was either not detected or below the nas. Definitions: ME-not detected; MGG-negative; POS-positive; COL-colonies; RLs-laboratory repositing limits; L/R-laboratory acricen INTC-tob numerous to count

A result narmed with "DRY" indicates that the result was extoulated and reported on a dry weight basis.

All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.

The test pH labers analysed upon receipt at the laboratory, the result may not be suitable for perguistory purposes.

Actual times of analysis for parameters reported 436 hrs are available upon request. All terting is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are; Southampton (MELAP) PADER 09-131,NUDED PAIGE. NOT-MELAF labs; Wind Cap-NJ PROOF, Allest-BJ 02015, Vineland-BC 08005;PA 66-580.

all samples are collected as "grab" samples unless otherwise identified.

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1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3560 Fax: 215-355-7231



G\$/16/02 02:24pm

	ne associates pa		PHSID No: -TG3-5444	Inv. No.
Sample Number Sample Descrip			Samp. Date ":las/Temp 09/01/02 DN 00pm NA*F	Sampled by Customer Sampled
Paramet of	Herbad.	Result	RE# .	Tes: Cate, Cime, Analy
(LUORENE	EPA Method #270	no rū/kū	DRY 444. Ug/kg	
4-NITROPHIT.THE	RPA Vethod E270	NO ug/kg	ngy 3546 ug/kg	
1.2-DIPHENYLHYDRAZINE	EPA Method 8270	ao uy/kg	DRY 526, 49/kg	69/11/02 04:23PH ADB
Brinalyning Coeostin-k	EPA Method 6270	#O ug/kg		
4-BROYOFHENYL PHENYL ETHER	EPA Method 8270	NO ug/kg	DRY 479. ug/kg	C9/11/02 04:23PM REB
HEXACHLOROBENSENE	EPA Method 6270	NO ug/kg	DRY 965. ug/kg	C9/11/02 04:23PM 4E8
FHENANCHRENE	DPA Method \$270	1770 J ug/kg		C9/11/02 04:23PM 1EB
ANTHRACENE	EPA Method 8170	ND ug/kg		C9/11/02 04:23PM \EB
CARDACOLE	EPA Method 0270	ND ug/kg		C2/11/02 04:23PH 1ED
C N DOTYLPHTMALATE	GPA Method 0270	no ug/kg		C9/11/02 04:23PH \ED
FLUORANTHENE	EPA Method 6270	2090 Jug/kg		C9/11/02 04:23PM LEB
SENSIZINE	EPA Method 8270	ND ug/kg		C9/11/02 04:23CH LEE
FYRENE	EPA Method 6370	1993 J ug/kg		C9/11/02 04:23PH (EB
BUTYL BENZYL PHINALATE	EPA Method 8270	80 ug/kg i		C9/11/02 C4:23PM (EB
A. ST-C. CHLORCHERS 191NM	EFA Kethod 9270	HU ug/kg i		
JENZU (A) ANT HRACENE	EFA Method Favo	873. J ug/kg (EN/12/02 04:23PM 'SE
CHRYSENE	EPA Method 6270	1073 J ug/kg (C9/11/02 D4:23PM .CB
315(2-ETHYLHEXYL) FHTHALATE	EPA Method 8270	585 Jug/kg (C9/11/02 04:23PM . EB
TI-M-CCTVLPHTHALATE	EPA Xethod 6270	Bo ug/kg t		C9/11/02 04:23PH . EB
PENZO (B) FT.DOBANTHENE	EFA Yellind 6370	733. 7 ng/kg f		69/11/02 04:33PM / EB
PENSO [K] FT. HORANTHENE	EPA vethod #270	Anz, Tuo/ka f		G9/11/02 84:23PM I ER
BENZO (A) PYRENE	EPA Method #270	775. J ug/kg (C9/11/03 04:23PM / E5
INDENC(1.2.3-CD) PYREME	EPA Method 6270	#O ug/kg D		CS/11/03 04:23PM J EB
libene (A, H) anthra cen e	SPA Method E370	HD ug/kg D		C9/11/03 04:23PM / EB
PENZO (G. H. I) FERYLENE	EPA Method 6170	NO ug/kg D		C9/11/02 04:23PM / EB
TOLUCHE	EPA 0270 Library Scarch	2430 JN ug/kg D		C9/11/03 04:23PH / 60
HEXADECAHOIC ACID	SPA 0270 Library Scarch	4590 JN ug/kg D		C3/11/02 04:338H 3 BD
CB KHOW - 1	ECA 3270 Library Search	scop J ug/kg D		C9/11/02 04/23PM F DB
CHENOWE ALKANE-1	SPA 3370 Library Search	2570 J ug/kg D		C9/11/02 04:23PM A ES
CH KNO XXI - 2	EPA 3270 Library Search	23#3 J ug/kg D		C9/11/02 04:23PM N SR
CHIMONN VIKVNE-3	CPA 8270 (ibrary Search	1890 J ug/kg b		C9/11/03 04:339N A3B
CHEMONN ALKAND-3	EPA #270 Library Search	2313 Jug/kg D		C9/11/03 04:239M A 28
LE ENOME - I	CPA 8270 Library Search	2040 T rd/kd Di		CA\TT\A3 A4:336W W SR
CHACKEMETHANE	MPA Xethod wasy	an na/ka m		CA\10\03 03:335W W 45 CE\17\45 04:335W W 36
VINYL CHLORILE	EPA xethod 6260	NO ug/kg bi		C#/10/02 03:27PM % CP
PROMOMETHANE	EPA Method 6260	אם עק/אק מא		
CHTORCETHANE	FPA Yethor Ezeo			C9/10/02 03:27PH N IP
	maining rapping	HO ug/kg DI	tY (37. hg/kg	69/10/92 03:27PM V:P

A result of "MD" indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: NC=not detected: NEG=negative; POS=positive; COL=colonies; RLs=laboratory repairting limits; L/A=laboratory and dea TRICates numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry veight basis.

All inalycis, except field tests are conducted in Southinpton, DA unless otherwise identified.

The test-pH lab-is analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

Actual times of analysis for parameters reported <10 hrs are available upon request. All totating is completed within the required time of analysis for parameters reported <10 hrs are available upon request. All totating is completed within the required time unless otherwise notes. holding time unless otherwise noted ..

QC inc's laboratory cartification ID's are: Southarpton (MELAP) PADER 09-131,NJDEP PAIGE. N:N-NELAF labe: Mind Cap-NJ PACCE, Alltest-HJ 02015, Vineland-HJ 05005; PA 68-530.

All samples are collected as "grab" samples unless otherwise identified.

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Analytical Results

09/16/02 02:25pm

1DICTALDAGETHENE	A444	OND ASSOCIATES PA		C.3. No. N!02-5444 MSID No:	Inv. No:
1DICHLORGETHENE		ption			
1.1-DICKLORGETHENE EPA NECHON 6160 MO Ug/kg DRY 176. Ug/kg C4/10/02 03:27PM NE DRAWN RAY PRINCH 5160 MO Ug/kg DRY 186. Ug/kg C4/10/02 03:27PM NE DRAWN DISULFIDE EPA NECHON 6160 MO Ug/kg DRY 181. Ug/kg C4/10/02 03:27PM NE RETUTIENE CHICARDE EPA NECHON 6160 MO Ug/kg DRY 136. Ug/kg C4/10/02 03:27PM NE REASE-1.4-DICKLORGETHENE EPA NECHON 6160 MO Ug/kg DRY 136. Ug/kg C4/10/02 03:27PM NE REASE-1.4-DICKLORGETHENE EPA NECHON 6160 MO Ug/kg DRY 120C Ug/kg C4/10/02 03:27PM NE REASE-1.4-DICKLORGETHANE EPA NECHON 6160 MO Ug/kg DRY 120C Ug/kg C4/10/02 03:27PM NE REASE-1.4-DICKLORGETHANE EPA NECHON 6160 MO Ug/kg DRY 120C Ug/kg C5/10/02 03:27PM NE C4/10/10 MO Ug/kg DRY 10. Ug/kg C4/10/02 03:27PM NE C4/10/10 MO Ug/kg DRY 10. Ug/kg C5/10/02 03:27PM NE C4	7272 36 [6]	Method	Result		Test Cate, time, / mal
ACRONIC DESILETOS		EPA Method 6260	no ug/kg be	y 437. ug/kg	
No wy/kg DRY	•	RPA Yethod 6360	หก ug/kg กะ	y 1360 lig/kg	* *
METRYLENE CHLORIDE EMA Xethod 2560 NO Ug/Kg DRY 136. Ug/Kg C7/10/02 03:27PN 18 ACROLEIN EMA Xethod 2560 NO Ug/Kg DRY 126. Ug/Kg C7/10/02 03:27PN 18 ACROLEIN EMA Xethod 2560 NO Ug/Kg DRY 122. Ug/Kg C9/10/02 03:27PN 18 ACROLEIN ACROLEIN EMA Acthod 2560 NO Ug/Kg DRY 122. Ug/Kg C9/10/02 03:27PN 18 I.1-OICHLOROETHANE EMA Acthod 2660 NO Ug/Kg DRY 130. Ug/Kg DRY 130		EFA Method 8360	NO ug/kg OE	y 512. uy/kg	C9/10/02 03:27PM : EP
### Xethod 2260 ND ug/kg DRY 126. ug/kg C9/10/03 03:27PN E ACRIGETY EPA Method 2260 ND ug/kg DRY 122C ug/kg C9/10/03 03:27PN E ACRIGETY EPA Method 2260 ND ug/kg DRY 122C ug/kg C9/10/02 03:27PN E		EFA Xethod 8360	HD ug/kg DR	y 813. ug/kg	C9/10/02 43:27PM : EP
ACROLEIN ACRICHITRILE EPA Method 6260 BD ug/kg DRY 1120 ug/kg C9/10/02 03:27PM NE ACRICHITRILE EPA Method 6260 BD ug/kg DRY 11:01CHIDROETHARE EPA Method 6260 BD ug/kg DRY 11:01CHIDROETHARE EPA Method 6260 BD ug/kg DRY 11:01CHIDROETHIRE EPA Method 6260 BD ug/kg DRY 11:01CHIDROETHIRE DPA Method 6260 BD ug/kg			ND ug/kg DR	y 136, ug/kg	C9/10/02 03:27PH : EP
ACKYGGHITKILE EPA Method 6160 BO ug/kg DRY 1.1-01CHLDKOETMANE EPA Method 6160 BO ug/kg DRY 1.20 Ug/kg C9/10/02 03:27PN NE L1-01CHLDKOETMANE EPA Method 6160 BO ug/kg DRY 1.20 Ug/kg C9/10/02 03:27PN NE LIG 1.2 DICHLDROETHIGHT DPA Method 6260 BO ug/kg DRY S12. ug/kg C9/10/02 03:27PN NE LKLOREFORM EPA Method 6260 BO ug/kg DRY S12. ug/kg C9/10/02 03:27PN NE LKLOREFORM EPA Method 6260 BO ug/kg DRY S12. ug/kg C9/10/02 03:27PN NE LKLOREFORM EPA Method 6260 BO ug/kg DRY S12. ug/kg C9/10/02 03:27PN NE LKLOREFORM EPA Method 6260 BO ug/kg DRY S17. ug/kg C9/10/02 03:27PN NE LARBON TETRACHLORIDE EPA Method 6260 BO ug/kg DRY S17. ug/kg C9/10/02 03:27PN NE LY-DICHLDKOETHANE EPA Method 6260 BO ug/kg DRY S17. ug/kg C9/10/02 03:27PN NE LY-DICHLDKOETHANE EPA Method 6260 BO ug/kg DRY S17. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S18. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S18. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE RRICHOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE CMLOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE CMLOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27PN NE CMLOROETHANE EPA Method 6260 BO ug/kg DRY S19. ug/kg C9/10/02 03:27P			ND ug/kg DR	y 2030 ug/kg	C9/10/03 03:27PM) EP
1.1-DICHLOROETHAME					C9/10/02 03:27PM 5 EP
VIMIL AGETATE	******				CS/10/02 03:27PM SEP
### CP1 1,2 DICHIONOUTHERS					C9/10/02 03:27PM 5 EP
### SETAMONE EPA METHON ### SETA NO NO NO NO NO NO NO NO NO NO NO NO NO	•	DPA Method 6260			C9/10/02 03:27PH SSP
### ##################################		EPA Method 8360			C9/10/62 63:27PM X EP
1.1.1-TRICHLCROFTHANE DA METHOD EPA METHOD 6260 BD Ug/kg DRY 171. Ug/kg C9/10/02 03:27PM NEW 28/10/02 03:27PM N					C9/10/02 03:27PM NEP
TARBON TETRACHLORIDE EPA Method 6260 ND ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 MEMBUR EVA Method 8260 DU LU/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TRICHLOROETHARE EPA Method 6260 BD ug/kg DRY 108. ug/kg cy/lu/02 03:27PM N36 TRICHLOROETHARE EPA Method 6260 BD ug/kg DRY 108. ug/kg cy/lu/02 03:27PM N36 TRICHLOROETHARE EPA Method 6260 BD ug/kg DRY 108. ug/kg cy/lu/02 03:27PM N36 ROUGHINGTORETHARE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 2-OHLOROETHAT VINVI. ETHAR EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 CIS-1_1-DICHLOROPROPERE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 CIS-1_1-DICHLOROPROPERE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TRINSTILLOROETHARE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TRINSTILLOROETHARE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TETRACHLOROETHARE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TETRACHLOROETHARE EPA Method 6260 BD ug/kg DRY 171. ug/kg cy/lu/02 03:27PM N36 TETRACHLOROETHARE EPA Method 6260 BD ug/kg DRY 172. ug/kg cy/lu/02 03:27PM N36 CHLOROERNEZHE EPA Method 6260 BD ug/kg DRY 173. ug/kg Cy/lu/02 03:27PM N36 CHLOROERNEZHE EPA Method 6260 BD ug/kg DRY 174. ug/kg Cy/lu/02 03:27PM N36 CHLOROERNEZHE EPA Method 6260 BD ug/kg DRY 175. ug/kg Cy/lu/02 03:27PM N36 CY/lu/02 03:27PM N3					C9/10/02 03:27PM NEP
### ### ### ### ### ### ### ### ### ##					CB/10/02 03:27PM N 3P
12-DICELDMOETHARE 201 Xethod 210 31 - DICKLORGETHARE 202 Xethod 210 320 Jug/kg DRY 100 Lug/kg 100 Lug/kg 100 Lug/kg 101 Lug/kg 102 Lug/kg 103 Lug/kg 103 Lug/kg 104 Lug/kg 105 Lug/kg 105 Lug/kg 105 Lug/kg 106 Lug/kg 107 Lug/kg 107 Lug/kg 108 Lug/kg 108 Lug/kg 109 Lug/kg 108 Lug/kg 109 Lug/kg 10					CD/10/02 03:27PM 8 4P
TRICHLOROETHENE EPA Method 6250 236. J ug/kg DRY 108. ug/kg C9/10/02 03:27PM N H 1,1-DICHLOROEROPANE EPA Method 6250 BD ug/kg DRY 108. ug/kg C9/10/02 03:27PM N H 2ROMODICHLOROEMETHAME EPA Method 6250 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2ROMODICHLOROEMETHAME EPA Method 6250 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2ROMODICHLOROEMETHAME EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 4-NETHYL-2-PERTANCHE EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 4-NETHYL-2-PERTANCHE EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H TRANS-1. 3-DICHLOROEPROPENE EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 1.2-TRICHLOROETHAME EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 1.2-TRICHLOROETHAME EPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 170. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 170. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BD ug/kg DRY 172. ug/kg C9/10/02 03:27PM N H 2 HEXAMONE BPA Method 6260 BPA Ug/kg DRY 172. ug/kg C9/10/02 03:27PM N H 3 HAP-WILLEMES BPA Method 6260 BPA Ug/kg DRY 172. ug/kg C9/10/02 03:27PM N H 3 HAP-WILLEMES BPA Method 6260 BD ug/kg DRY 172. ug/kg C9/10/02 03:27PM N H 4 HAP-WILLEMES BPA Method 6260 BD ug/kg DRY 173. ug/kg C9/10/02 03:27PM N H 4 HAP-WILLEMES BPA Method 6260 BPA Method 6260 BD ug/kg DRY 174. ug/kg C9/10/02 03:27PM N H 4 HAP-WILLEMES BPA Method 6260 BPA Method 6260 BD ug/kg DRY 174. ug/kg C9/10/02 03:27PM N H 4 HAP-WILLEMES BPA Method 6260 BPA Method 6260 BD ug/kg DRY 174. ug/kg C9/10/02 03:27PM N H 4 HAP-WILLEMES BPA Method 6260 BPA Method 6260 BD ug/kg DRY 174. u					• = • • •
1,2-DICKLOROPROPANE	- ·				•
### REMODIFICHLORGENETHANE EPA Method \$250 HD ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P	•	· · · · · · · · · · · · · · · · · · ·			* *
2-CMICROFETHNT VINVE ETHER 2-PA Verhod 8260 3-CMICROFETHNT VINVE ETHER 3-PA Verhod 8260 4-HETYL-2-PENTANCHS 5-PA Method 6260	•			• • •	· •
CIS-1,3-DICHIOROPROPERS				• •	• •
######################################					
TOLUENE EPA Xethod 6260 73000 ug/kg DRY 139. ug/kg C9/11/02 01:12PM N P TRANS-1.3-DICHLORCPROPENE EPA Xethod 6260 ND ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P 11.2-TRICHLCROETHANE EPA Xethod 6260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P 2 HEXAMONE EPA Xethod 0260 ND ug/kg DRY 170. ug/kg C9/10/02 03:27PM N P 2 HEXAMONE EPA Xethod 0260 ND ug/kg DRY 170. ug/kg C9/10/02 03:27PM N P 2 HEXAMONE EPA Xethod 0260 ND ug/kg DRY 170. ug/kg C9/10/02 03:27PM N P 2 HEXAMONE EPA Xethod 0260 ND ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P CKLORCBENZENE EPA Xethod 0260 ND ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P CKLORCBENZENE EPA Xethod 0260 ND ug/kg DRY 11.2 ug/kg C9/10/02 03:27PM N P XLP-XYLENES EPA Xethod 0260 S360 ug/kg DRY 136. ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 PA Wethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P S-YYLENE EPA Xethod 0260 ND ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P					
TRANS-1,3-DICHLORCPROPENE EPA Method 8260	•				• - • -
1.1.2-TRICHLCROETHANE EPA Method 6260 NO ug/kg DRY (7.8 ug/kg C9/10/02 03:27PM N P TETHACHLOROETHANE EPA Method 0260 NO ug/kg DRY (71. ug/kg C9/10/02 03:27PM N P 2 HEXARONE EPA Method 0260 BD ug/kg DRY (71. ug/kg C9/10/02 03:27PM N P 2 HEXARONE EPA Method 0260 BD ug/kg DRY (71. ug/kg C9/10/02 03:27PM N P CHLOROEMACHETHANE EPA Method 6260 NO ug/kg DRY (4.2 ug/kg C9/10/02 03:27PM N P CHLOROEMACHE EPA Method 6260 NO ug/kg DRY (4.2 ug/kg C9/10/02 03:27PM N P ETHYL BENZINE EPA Method 6260 S360 ug/kg DRY (1.2 ug/kg C9/10/02 03:27PM N P MAD-XYLENES EPA Method 6260 19900 ug/kg DRY (3.6 ug/kg C9/10/02 03:27PM N P STYRENE EPA Method 6260 7360 ug/kg DRY (7.6 ug/kg C9/10/02 03:27PM N P STYRENE EPA Method 6260 NO ug/kg DRY (7.6 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.4 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.7 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.7 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.6 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.6 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.6 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.6 ug/kg C9/10/02 03:27PM N P EMANDEURH EPA Method 6260 NO ug/kg URY (7.6 ug/kg C9/10/02 03:27PM N P	:				
TETRACILOROSTIUNC EPA Method 0360 NO ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P 2 HEXARONE SPA Method 0260 NO ug/kg DRY 170. ug/kg C9/10/02 03:27PM N P 2 HEXARONE SPA Method 0260 NO ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P 2 HEXARONE EPA Method 0360 NO ug/kg DRY 171. ug/kg C9/10/02 03:27PM N P 2 HEXAR SENZINE EPA Method 0360 NO ug/kg DRY 11.2 ug/kg C9/10/02 03:27PM N P 2 HEXAR SENZINE EPA Method 0360 19900 ug/kg DRY 136. ug/kg C9/10/02 03:27PM N P 3 HEXARS EPA Method 0360 19900 ug/kg DRY 136. ug/kg C9/10/02 03:27PM N P 3 HEXARON EPA Method 0360 NO ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P 3 HEXARON EPA Method 0360 NO ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM N P 3 HEXARON EPA Method 0360 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 3 HEXARON EPA Method 0360 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P 4 Method 0460 NO ug/kg URY 17.6 ug/kg C9/10/02 03:27PM N P					
2				- -, -	
IBRONOCHLORCHETHAND EDA Method 6260 NO ug/kg DRY 171. ug/kg					
CKLORCBENZINE EPA Method 6360 MD uq/kg DRY :4.2 uq/kg C9/10/02 03:27PM % 8 ETHYL BENZINE EPA Method 6360 S360 ug/kg DRY :4.2 ug/kg C9/10/03 03:37PM % 9 MAD-XYLENES EPA Method 6360 19900 ug/kg DRY :36. ug/kg C9/10/03 03:37PM % 9 EYA Method 6360 7360 ug/kg DRY :7.6 ug/kg C9/10/02 03:27PM % 9 EYA Method 6360 7360 ug/kg DRY :7.6 ug/kg C9/10/02 03:27PM % 9 EYA Method 6360 MD ug/kg UNY :7.1 ug/kg C9/10/02 03:27PM % 9 EMAMUMUMA EPA Method 6360 MD ug/kg CRY :77. ug/kg C9/10/02 03:27PM % 9 1,3-01CHLOROBENZENE EPA Method 6360 MD ug/kg DRY :7.6 ug/kg C8/10/02 03:27PM % 19	-	- -			
ETHYL BENZINE EPA Method 6100 \$360 ug/kg DRY :1.2 ug/kg C9/10/03 03:379N N.9 MLP-NYLENES EPA Method 6260 19900 ug/kg DRY :36. ug/kg C9/10/03 03:379N N.9 5-XYLENE EPA Method 6260 7360 ug/kg DRY :7.4 ug/kg C9/10/02 03:379N N.9 FINENE EPA Method 6260 HD ug/kg DRY :7.4 ug/kg C9/10/02 03:379N N.9 MACHOD HOUSE EPA Method 6260 HD ug/kg DRY :7.4 ug/kg C9/10/02 03:279N N.9 MACHOD HOUSE EPA Method 6260 HD ug/kg DRY :7.7 ug/kg C9/10/02 03:279N N.9 MACHOD HOUSE EPA Method 6260 HD ug/kg DRY :7.6 ug/kg C8/10/02 03:279N N.9 MACHOD HOUSE EPA Method 6260 HD ug/kg DRY :7.6 ug/kg C8/10/02 03:279N N.9					
19-00 ug/kg DRY 136. ug/kg C9/10/02 03:27PN N.P 136. ug/kg C9/10/02	- -				
EPA Method 6260 7360 ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM 91P STYRENE EPA Method 6260 800 ug/kg DRY 17.4 ug/kg C9/10/02 03:27PM 91P SHOWNERDE EPA Method 6260 800 ug/kg DRY 17.4 ug/kg C9/10/02 03:27PM 91P 1,1,2,3-TETRACHLORORTHARE EPA Method 6260 800 ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM 91P 1,3-DICKLOROEENZENE EPA Method 6260 800 ug/kg DRY 17.6 ug/kg C9/10/02 03:27PM 91P	XFB-ZAFERE				
######################################					
ENGINDEDING EPA Method elec en ug/kg DRY .27. ug/kg cv/lb/02 03:27PN NIP L.1.2.3-TETRACHLORORTHAME EPA Method elec en ug/kg DRY .27. ug/kg cv/lb/02 03:27PM NIP L.3-DICKLORORENZENE EPA Method elec en ug/kg DRY .7.6 ug/kg cs/lo/02 03:27PM NIP			2, -		
1.1.2.2-TETRACHLORORIMANE EPA Method 6260 86 ug/kg CRY :27. ug/kg C9/10/02 03:27PM 31P 1.3-DICKLORORENZENE EPA Method 6260 80 ug/kg DRY :7.6 ug/kg C9/10/02 03:27PM 31P				U	
1. 3-DICHLOROPENZENE EPA Xethod 6260 BD ug/kg DRY :7.6 ug/kg C9/10/02 03:278M XIP	1, 1, 2, 3 - TETRACHLORGETHANE				
pe gilled our gilled our called all a			-, -		
	• • • • • • • • • • • • • • • • • • • •	EPA Vettind 8260	NO UU/KY DRY	7.e ug/kg 3.7 ug/kg	C3/10/02 03:27PM N1P

A result of "MC" indicates the concentration of the analyte tested was either not detected or below the RES. Definitions: ME-not detected; MEG-negative; PDS-positive; CDL-colonies; RLs-laboratory rejecting limits; L/A-laboratory action TNIC-toc numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry visiont bacis.

All analycis, except field tests are conducted in Southampton, PA unless otherwise identifyed.

The test pH labis analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted ..

OC Inc's laboratory certification ID's are: Southerpton (NELAP) PADER 09-131, NUDER PALES, NON-MELAS laber Wind Gap-NU PAGO1, Alltest-85 02015, Vineland-WJ 06005; PA 66-580.

All samples are collected as "grab" camples unless otherwise identified.

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Unscrialized Capy



09/16/02 02:26pm

Account No: ROOLSS, WHITESTONE Project No: BOOLSS, WHITESTONE			P.S. No: M302-5444 :ON CIEKY	(rv. No:
Sample Number Sample Descripts 1941115-3 5444-87	oc		Samp. Data/Time/Femp 09/05/02 03:00pm NAPF	Sampled by Customer Sampled
Paramet er	He : had	Re#'Jit	RLE	Tes: Cate, Dine; Audi
1 2-DICKLORGE ENSEME	gpa Method #260	มp ug/kg	DRY 11.3 ug/kg	
CYCLORENANS, HETHYI	RPA 9360 (thraty Seatch	12700 NJ ug/kg	DRY	C4/10/02 03:27PM 4 (P
CTHYLYETHYLBEBIENE ISOMER-1	EPA 5260 Library Search	10403 J uy/ky	DRY	4: K M425:C0 CD/07/60
1.3.5-TRINGTHYLBENZERS	EPA 3260 Library Scarch	4740 HJ ug/kg	DRY	C9/10/02 03:27PH N :P
ETHYLYETHYLBENZENE ISOMER-2	EPA 3260 Library Search	4140 J ug/kg	DRY	C9/10/02 03:27PM N IP
1.2.4-TREMETHYLBENZEHE	EPA 3260 Library Search	16800 NJ ug/kg		CS/10/02 03:27PM N P
CNENOXA AROMATIC-1	EPA 3260 Library Scarch	4350 J ug/kg	DRY	C9/10/02 93:278H H IR
1-METHYL- (1-METHYLETHYL) ZENZEN 100MER 1	EPA 3260 Library Search	5620 J ug/kg	DRY	C9/10/02 03:27EM N :P
180MBK-1 7 MELLIAP (7 KELMATELMUP) DEMECA	CPA 9200 Library Scareh	4683 Jug/kg	DRY	C9/10/02 03:27PM H P
CHENOXH AROMATIC-2	EDA 3260 Liberry Search	4343 J ug/kg	DRY	T: K MT75:E0 60/01/60
na prthal en e	EPA 2260 Library Search	41400 BJ ug/kg	DRY .	C9/10/03 03:279N N P
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 2540G	92.24 ¥	0.000.4	C9/09/02 04:20PM J:
Received Camp: 13	FF Iced (Y/N)T Y			,
eranast, pr	भन्दः,,विश्वरात्रे	Prest (" i.	RI.H	Test. Dale, Time, Ackly
ATT, VER	SWAAS Nethol 6010	MD mg/kg		09/11/02 10:56EN 3/R
arsenic	5M646 Nethor 6012	15.9 ng/kg		C9/11/02 10:54AH 3/6
B CRYLLIUM	SHA46 Nethod 6010	0.489 mg/kg		C9/11/02 10:56EM BJB
CADHICH	SWE45 Method 6013	3.32 ng/kg		C9/11/02 10:56AM 3/8
CHRONIUM	SW046 Nethod 6010	15.5 ng/kg		C9/12/02 10:56RH 3/B ·
CAPPAR	DMO46 Netkoś (D13	24.5 ng/kg		C9/11/02 10:56AH 3/5
NICKEL	DNO45 Nethod COld	20.3 ng/kg (C9/11/02 10:56AH 3/5
LEAD	SW045 Nethod 6013	352. ng/kg (CO/11/03 10:56RM 3/8
ARTIMONY Selenion	SWHAE Netto: 6015	BD ng/kg		C9/11/02 10:56AN 3/B
TWALLIUM	SWELL Nethod 6013	HO mg/kg (C9/11/03 10:56hM 3/2
INC	SWE44 Nethod 6013	No mg/kg i		C9/11/02 10:56NH 3/8
ARKONZ SING	SW946 Nethod 6013	12700 ng/kg t		C9/11/03 10:56NH 3/3
(encort (- nithoend inethylanine	SME45 Method 7471 NVA Method 6270	יעעניט ng/kg נ		CA\TT\03 07:436W 7%)
:IS(2-CHLOROETHYL) STHER	EPA Method 6270	NU ug/kg t		CALTAN DESCANN VIR
- 3-DICHLOROFENSENS	EPA Method 6270	ao ug/kg t		C#/11/02 05:07PH AE3
1,4-DICHORDERSERS	EPA Method #270	no ug/kg b		CP/11/02 DS:07PH AE 2
· · · · · · · · · · · · · · · · · · ·	nem recollect Extil	พก ng/ky ก	nev 11.000 ug/kg	C9/11/03 05:07PM AFR

A result of "MC" indicates the concentration of the analyte tested was either not detected or below the Ris. Definitions: MC-not detected; MEG-negative; POS-positive; COL-colonies; RLz-laboratory reperting limits; L/A-laboratory acriten THTC-toe Cumercus to count

INTO-too functions to count

A result marked with *DRY* indicates that the result was calculated and reported on a dry which basis,
all inalycis, except field tests are conducted in Southampton, CA unless otherwise identified.
The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. nothing time of inniverse noted.

QC Inc's laboratory certification ID's are: Southarpton (KELAF) PADER OS-131, NUIDEP PALES, NUN-NELAF labe: Mind Gap-NU PROOL, Alltest-HJ 02015, Vineland-HC 060C5; PA 66-380.

All samples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:26pm

avole Minber Sapple Descript	100	Samo.	Date, "inc/Fent	Sampled by
arple Munber Sample Descript 041115-4 3444-89	. 106		/02 3: 15pm MA'F	Customer Sampled
lranet SI	Method	Result	RLs	Test Date, Dime, analy
BEHITL ALCOHOL	EPA Method \$370	NO UG/KG DAY	iesoc ug/kg	
1, 2-DICHIOROFENERNE	EPA Yethod 6370	את lig/kg את ug/kg	49AC tig/kg	09/17/09 05:07PM ARR
315(2-CHLOROISOPROPYL) ETHER	EPA Kellud 8270	no uy/ky DRY	:,2000 uy/ky	C9/11/02 05:07PM \EB
N-MITROSO-DI-M-PROPYLAMINE	EPA Method 6270	no ug/kg ony	: 640C ug/kg	C9/11/02 05:07PH LEB
H SIXA CHLORO STHANE	EPA Method 6270	HO ug/kg DRY	:010C ug/kg	C9/11/02 05:07PH \EB
NI TROBENZENE	EPA Method 6270	NO ug/kg DRY	1240C ug/kg	C9/11/02 05:07PM LEB
ISOPHERONE	EPA Method 8270	no ug/kg DRY	:110C ug/kg	C9/11/02 05:07PM (EB
GIDA DIOSMEE	EPA Metland 6170	NO ug/kg DRY	1:300c ug/kg	CP/11/62 05:07PH .CB
210(2 CILOROETHOXY) METILANS	EPA Method 6270	ID ug/kg DRY	.150C ug/kg	C9/11/02 05:07PM
1. 2. 4 TRICHLOROBERESHE	SPA Method 9270	ab ne/ke but	.170c ug/kg	c9/11/02 QS:07PMBB
HAPHTHALENS	EPA Method 6370	13400 Jug/kg DRY	.120¢ ug/kg	C0/11/02 05:07PMEB
4 - CALCROANILINE	SPA Method 6370	ND ug/kg DRY	SAOC US/KS	C9/11/02 05:07PM / EB
HEXACHLOROBUTAD LENE	EPA Method 6270	HD ug/kg DRY	: 3200 ug/kg	C9/11/03 05:07PM / E8
2 - NETHYLNA PHTHALENE	SPA Method 6270	19500 J ug/kg DRY	· 030C ug/kg	C9/11/02 05:07PM / EB
AERA CALOROCYCLOPENYADI ENE	EVA Method 8270	HU HQ/KG DHY	: Flue ug/kg	UN/12/02 UB (U79M / EM
y - Chillhora Phthalene	WPA Xethod 6270	NU ug/kg Uky	isse ug/kg	CALTAGE GRIDANM VER
2-MITROANILINE	EPA Xethod #270	BO ug/kg DRY	1200 ug/kg	C#/11/02 05:07PM # EB
STALAHCHG AYHTSMI	EPA Method 6270	NO UG/KG DRY	1310 ug/kg	C9/11/02 05:07PM / ER
CENARKTHYLENE	EPA Xethod #270	NO UN/KU DRY	153c ug/kg	C#/11/02 05:07PM A EM
L, K-DINTTROTCHUNKE	EPA Yet,hod 6250	#D mg/kg DRY	1330 ug/kg	C9/1"/02 05:07PM A EB
-NITTOANITANE	RPA Verhod 6270	HO HE/KE DRY	tilane ng/kg	69/1"/02 05:07PH ARE
CENAPHTHENE	SPA Xethod #270	#D ug/kg Dit	053C 44/kg	C3/11/02 03:07PM A 58
IBENZOFURAU	SPA Xethod 8270	ND ug/kg DRY	3450C ug/kg	C9/11/02 05:07PM ASB
4-DINITROCCLUENE	EPA Method \$270	ND ug/kg DRY	1::300 ug/kg	C9/11/02 05:07PM A 28.
STHILL STALLAR STANFORM STANFO	EPA Method 6270	NO ug/kg DRY	: 750 ug/kg	C9/11/02 05:07PM A 3B
CILERONICHYL MICHYL CELER	SPA Mcthod 6270	HD ug/kg DRY	700 ug/kg	C9/11/02 05:07PM A 30
LUORGUS	EPA Mothed 9279	Ald by/ba du	i 340 ug/kg	C9/11/02 05:07PM A 10
BHILIHAORTIN -	ECA Method \$270	ND ug/kg DRY	### ug/kg	C9/11/02 05:070H A IB
. 2-DIPHENYLHYDRAZINE	EPA Method #270	BD ug/kg DRY	1000 ug/kg	C9/11/02 05:07PM A 18
- NITROSOD IPHENYLAMINE	EPA Method \$370	ND ug/kg DRY		
- BROYOPHENYL PHENYL BIHER	EPA Method 6270	#D ug/kg DRY	:.1500 ug/kg 1970 ug/kg	C9/11/03 05:07PH A TE
EXACHLOROSENSEND	EPA Method 6270	#D ug/kg DAY	:::100 ug/kg	C9/11/03 DB:07PH A W
HERANIHNERE	EPA Method 8270	NO UG/KG DKY		09/11/02 05:07PM A B
PINHACENE	MA Method 6274	an na/ka nes	1.0300 ug/kg	C9/11/02 05:07PM A B
ARALZOLE	EPA Xethod 6278		1.1.100 ug/kg	U9/11/02 U5:UVPN A. #
I - N - BUTYL SHTHALATE	EPA Method 8270	no ug/kg DRY	(;)ac ug/kg	CS/11/02 05:07PH A:E
	アニピ いんじせたひ たたしの	No ug/kg DRY	11 300 ug/kg	C9/11/02 05:07PH A:8

A result of "M" indicates the concentration of the analyte tested was either not deterted or below the RLs. Definitions: NE-not detected; MEG-negative; PDS-positive; CDL-colonies; RLs-laboratory repositing limits; L/A-laboratory accilen INTC-toe numerous to count

A result marked with *DRY* indicates that the result was calculated and reported on a dry slight basis.

All analysis, except field tests are conducted in Southampton, DA unless otherwise identified.

The testing labis analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analyzes for parameters reported all has are available upon request. All thirting is completed within the req in holding time unless otherwise nated.

QC Inc's laboratory certification In's are: Southampton (NETAP) PADER 89-131, NUMER PALSE. WHIN-METAP labe, Mind Gap-Mf PROST. Alltest-NJ 02015, Vineland-NC 000CS;PA 68-580.

All samples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:26pm

Sample Number Sample Description 5444-88			4 : ·	
			Date/I:me/Tamp /02 03::5pm HAPP	Sampled by Customer Sampled
paranet ex	Methad	Result	RT.#	Test Cate, Time, maly
SENTIFIE	CFA Xethod \$270	BO Ug/kg DRY	ii 6000 ug/kg	C9/11/02 05:07PH .EB
SYRENE	RPA Vethod 5370	NO ug/kg DRY	110C ug/kg	
BUTYL BENZYL PHTHALATE	EPA Method 8370	no ug/kg DRY	.350C uy/ky	C9/11/02 05:07PH .EB
), 31-DICHLORCHENZININE	EPA Method #270	NO ug/kg DRY	4.430C 4g/kg	C9/11/02 05:07PM . EB
Zenzo (a) anthracene	EPA Method 6370	no ug/kg DRY	:020C ug/kg	C9/11/02 03:07PM : EB
CHRYSENG	EPA Method 8370	ND 4g/kg DRY	349C ug/kg	C9/11/02 05:07PH / EB
BIS(2-CTHYLHEIM) FHTHALATE	EPA Method \$270	ND ug/kg DRY	##2C ug/kg	CJ/11/02 05:07PM ! EB
di-n-cotylphthalats	SPA Method 6370	ND ug/kg DRY	::450C ug/kg	CS/11/02 OS:07PM / EB
Ske ithanoljų (d) osne:	EPA Mothod 0270	no ad/led oux	: 260C ug/kg	C9/11/02 05:07PM / EB
SHEITHARDURA (X) OSHEC	EFA Method 6276	no ug/kg DRY	: 210C ug/kg	C9/11/02 05:07PM / ED
JENJO IAI PYREND	EDA Method E270	NO ug/kg DRY	: 120C ug/kg	C9/11/02 05:07PM / EB
INDENC(1,2,1-CD: PYRENS	EPA Method E379	BO UQ/Kg DRY	377E ug/kg	C9/11/02 05:07PM # EB
DIBENZ (A, H) ANTHRACENS	EPA Method 6270	HD ug/kg DRY	1800 ug/kg	C9/11/02 05:07PM / EB
Benzo (G. H. I) PERYLENE	EPA Method E270	NO UG/KG DRY	1 1200 ug/kg	C9/11/02 05:07PM # EB
CHKNOAD ALKANE-1	EPA 9270 Library Search	525000 J ug/kg DRY		C9/11/03 U5:07PM A EM
UNRHOAN ALLANS-2	EPA 8270 Library Search	261000 J ug/kg DHY		CP/11/03 OS: UTPM ARE
CINETHYLCYCLCHEXANE ISOMER	EPA 9270 Library Searth	576000 J ug/kg DRY		C9/11/02 05:07PM A 28
CMENOWN - 1	EPA 3270 Library Search	751003 J ug/kg DRY		C9/11/02 05:07PM A SE
CHANOM TTUNE-1	EPA 3270 Library Search	192003 7 Ug/kg DRY		C9/1_/G2 05:07PM A 28
CHEMORN ALTANG-4	EPA 5370 filterry Search	татпол ,т пу/ку пач		CT/1"/NZ NT:NTPM A IR
CHENGEN ALTANE-5	EPA SATO Fibrary Search	230000 Jug/kg DRY		. 09/17/02 05:07PM A IB
CR KNOXA - 3	EFA 5270 Library Search	329000 J ug/kg ORY		C9/11/02 05:07PM A 8
CN KNOWS - 3	EPA 5270 Library Search	211003 J ug/kg DRY	•	C9/11/02 05:07PM A 38
CHIMONI ALKANE-6	EPA 3270 Library Search	234000 J ug/kg DRY		C9/11/02 05:07FH A B
UNKNOWN AROMATIC-1	EPA 8270 Library Search	253000 J ug/kg DRY		C9/11/02 05:07PH A B
CHENOWN AROMATIC 2	GPA 3270 Library Scarch	1120030 J ug/kg DRY	· .	09/11/02 05:07PM :ED
CHENOKH 4	BPA 3276 Library Search	207003 J ug/kg DRY		C9/11/02 05:07PM A B
CREMONN ARGMATIC-1	EPA 8270 Library Search	JESOOD J ug/kg DRY		C9/11/02 05: G7PH A 2
CRENOKR - 5	EPA #270 Library Search	485000 J ug/kg DRY		C9/11/02 05:07PM A B
CHLORGHSTHAME	EPA Method 6360	HO ug/kg DRY	1.35 ug/kg	C9/09/03 10:45PM N #
VINYL CHLORIES	EPA Method 6360	NO ug/kg DRY	1.47 ug/kg	C9/09/03 10:45PM N P
BRONOMETHANE	EPA Mechod 8260	NO ug/kg DRY	II.J ug/kg	C9/09/02 10:15PM N P
CHLORCETHANE	EFA Method wasu	au ug/kg Uky	1.38 ug/kg	C9/U9/U2 10:45PM N. P
1,1-DICHLOROETHERE	EVA Method W260	ND ug/kg DKY	1.25 ug/kg	CA\08\03 TO: #28# H' h
ACETUNE	EPA xethod 6260	76.5 ug/kg DRY	.s.s ug/kg	C9/09/02 10:45PN N:P
CARAON DISTLETE	EPA Method 6260	HO Ug/kg DRY	1.82 ug/kg	C9/09/02 10:45PN NIP
YETHYLEKE CHLOPIDE	RPA Yeilbud #260	NO HU/ky DRY	5.39 ng/kg	69/09/02 10:45PM NIR

A result of "MC" indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: NC-not detected; MEG-negative; PDS-positive; COL-colonies; RLs-laboratory reprinting limits; L/A-laboratory acciden THTC-too numerous to count

A result narked with *DRY* indicates that the result was calculated and reported on a dry viight basis.

All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.

The test pH labour analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported <30 hrs are available upon request. All tenting is completed within the requir holding time unless otherwise noted..

QC Inc's laboratory certification ID's are: Southerpton (WELAP) PAGER 09-131, NUIDEP PAGE, NUN-HELAF labe: Mind Gap-NJ PAGE1, Alltest-NJ 02015, Vineland-NC 06005; PA 66-530.

All samples are collected as "grab" samples unless otherwise :dentified,

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Unserialized Capy



09/16/02 02:26pm

Antomic we: access,	ne associates pa ne associates pa		P.3. No: 1702-5444 PXSID No:	int. No:
Sample Number Sample Decrii	pt loc.		Samp. Date/Stms/Temp 08/05/02 03:15pm NAPF	Sampled by Outcomer Sampled
Paranet er	Met bad	Result	RLs	Test Date, Time, Analy
TRANS, 2-DICHLORCETHENE	EPA Method #260	но ug/kg i		
ACPOLETN	EPA Vethod ERED	an ug/kg (DRY 16.5 lig/kg	C9/09/02 10:45PM #RP
ACRYLCHITRILE	EPA Method 6260	no uy/ky t	ony 15.5 uy/ky	C9/09/02 10:43PM {EP
1, 1-DICHLOROETHANE	EPA Method 8260	No ug/kg t	DRY 4.52 ug/kg	C9/03/02 10:45PM (EP
VINYL ACETATE	EPA Method 8260	no ug/kg t	ory 11.3 ug/kg	C9/03/02 10:45PM (EP
TIS-1.2-DICHLOROETHENE	EPA Method #260	do ug/kg (DRY 2.82 ug/kg	C9/C9/O2 10:45PM TEP
2-BUTANGHE	EPA Mathod 6260	31.5 ug/kg 1	38.2 11.3 ug/kg	C9/03/02 10:45PM 188
CHLOREFORM	EPA Method \$260	80 ug/kg (ony 4.52 ug/kg	C9/09/02 10:45PM 16P
1.1,1 TRICHLORDETHANK	EPA Method 0260	HO ug/kg E	nry - 1.65 ug/kg	C9/09/02 10:45PM RP
CARDON TETRACHLORIDE	CPA Method 6160	no ug/kg t	ony 2.26 ug/kg	C9/09/02 10:45PM 18P
2 ENZENE	EPA Method E260	ND 4g/kg C	RY 4.52 ug/kg	C9/09/02 10:45PH IEP
1, 2-DICKLORGETHANE	EPA Method #360	ND ug/kg C	RY 1.55 ug/kg	C9/09/07 10:45PM (EP
TRICHLORDETHERS	EPA Xethod 6260	NO ug/kg D	RY 1.65 ug/kg	C9/09/02 10:45PM 'EP
1, 2-DICELOROPROPANE	EPA Method 6360	ир ug/kg D	RY 1.65 ug/kg	C9/09/02 10:45PM EP
SKOWIE CHLOROMETHANE	EPA xethod witu	ກບ ug/kg ປ	nx 3.35 ug/kg	CA\0A\03 JO!4PhW RR
3-CHUCKGETHAT AIMAT SLMEH	MPA Method 6260	NU ug/kg U	Kr 5.UF ug/kg	CY/UY/UZ 10:45PM . BP
CIS-1, X-DICKLOROPROPENE	EPA Method &160	BO ug/kg D	ay 5.00 ug/kg	C9/09/02 10:45PM : EP
4 - HETHYL - 2 - PENTANCHE	EPA Mechod #260	ND ug/kg D	RY 11.3 ug/kg	C9/09/02 10:45PM : EP
TOLUENE	EPA Method #240	#0 ug/kg D	8Y 9.47 Ug/kg	CF/D9/G2 10:45PM : EP
тявия-1,3-л0сибоворяюряня	SPA Yellook 6360	nn ug/kg n	RY 2.26 Hy/ky	64/84/82 16:45PM 1 EP
1, 1, 2-TEICHLOROETHANE	EPA Yethod esko	nn ug/kg ⊓	RY 3.26 tig/kg	09/09/02 10:45PM ' EP
TETRACHLOROETHENE	EPA Method #360	#D ug/kg D		\$9/09/02 10:45PM : EP
3 - KEXANONE	SPA Method #360	No ug/kg b	RY 11.3 ug/kg	C3/09/02 10:45PM : EP
I I BROMO CHLORCHETHANE	EPA Method E360	ND ug/kg Di	RY 1.65 ug/kg	C9/09/02 10:45PM : EP
Chiorchenzere	EPA Method 8360	ND ug/kg DI	RY 1.65 ug/kg	C9/09/02 10:45PM 1 EP
ETHYL DENGENE	GPA Method G260	· NO ug/kg Di	1.65 ug/kg	C9/09/02 10:45PM 1 EP
MER KAPUNGO	EFA Method 0260	1.22 J ug/kg Di	1Y _ 2.02 ug/kg	C9/05/02 10:45PM) EP
C - XYLENE	EPA Method E260	NO ug/kg DI	RY 1.65 ug/kg	02 (MO34:01 CO\00\00
etyrche	EPA Method E160	80 ug/kg Di	LY 2.26 ug/kg	C9/09/02 10:45PM) EP
3ROMOFORM	RPA Method 6360	ND ug/kg Di	LY 3.35 ug/kg	CP/09/03 10:45PM > DP
1, 1, 2, 2 - TETRACHLOROETHANE	EPA Method 6360 .	BD ug/kg DR	lY 3.36 ug/kg	C9/09/02 10:45PM) EP
1,3-Gicklororemzene	SPA Method \$360	NO ug/kg DA	1.65 ug/kg	C9/09/03 10:45PM 5 EP
I - 4-DICH POKORENZENE	EFA Method 8260	אט ug/kg איט g/kg איט	12 2.26 Hg/kg	C9/09/02 10:45PM 58F
1,2-01Chloropersens	EFA Kethod W260	אט עק/אק טא		C9/09/02 10:45PM XEP
CHRNORM ALKANE-1	EPA 1260 Library search	14.2 7 ug/kg on	Y .	C#/09/02 10:45PM XEP
LAKNOMA YT KWNE-1	EPA \$260 Library Search	34.1 J ug/kg DR	Y	C9/G9/02 10:45PM X 2P
CERNORS ACTANGES	SPA 3360 fibrary Smarth	63.7 J Hg/kg DE		C9/09/03 TO:45PM 15P

A result of "NO" indicates the concentration of the analyte tested was either not detected or below the RDs. Definitions: MC-not detected; MEG-negative; PDS=positive; CDL=colonies; RLz-laboratory rejorting limits; L/L-laboratory acc den INTC-toc numerous to count
A recuit marked with "DRY" indicates that the result was coloulated and reported on a dry reight basis.

All samples are collected as "grab" samples unless otherwise identified.

?age 15 of 24

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All analysis, except field tests are conducted in Zouthampton, PA unless otherwise identified.

The test*pH lab*is analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported <30 has are available upon request. All testing is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory vertification ID's are: Southampton (FELAP) PADER 09-131,NJDED FALSE. HCM-WELAF laber Wind Cap-NJ PRO01 Alltest-#J 02015, Vineland-#J 06005; PA 68-530.



09/16/02 02:26 pm.

Account No: BOOLPS, WHITESTONE Project No: BOOLPS, WHITESTONE			P.S. No: 4002-5444 PRSID No:	ופא , למ]
Sample Number Sample Destripti 1941215-4 5444-89	oc.		Samp. Date/line/Temp 09/05/02 21/45pm NA*F	Sampled by Customer Sampled
Paramet SI	Method .	Result	ALS	Tes: Date, Time, Anal
UNINORH AROMATIC	EPA 3260 Library Search	25.6 J ug/kg	DRY	C9/09/02 10:45PM NEP
1 - NEPHYR - (1 - METHYR ETHYT) - REMERN ISONER - 1	EPA HASS (ibrary Search	25.5 T ug/kg	DRY	C9/09/07 10:45PM 4EP
Tachev-3 T-Weihat- (T-Weihateihat) Fersex	EPA 3260 Library Search	23.1 J ug/kg	DEX	C3/03/02 10:45PM IEP
ISCHER-3	EPA 8260 (ibrary Search	25.5 J ug/kg	DSA	C9/09/02 10:45PM 1EP
TETRAMETHYLBENIONE ISOMER-1	EPA 3260 Library Search	31.3 J ug/kg	DRY	C9/09/02 10:45PM 18P
TETRAMETHYLDENSONE LOOMER 2	GPA 3268 Library Search	29.6 J ug/kg	DUA	C9/09/02 10:45PM TEP
STHEEL BUSINESHE LOOMER	CPA 3260 Library Dearch	20.1 J ug/kg	DRY	C9/09/02 10:45PM IEP
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 3540	C 48.59 Y	0.:2000 \$	C9/09/02 04:20PM '8
anple Sumber Sample Coerriptio 941115-5 5444-81 GW Kecelved Ummp: 3			Samp. Date/fine/Temp 09/05/02 D4::0pm.NAPF	Sampled by Customer Sampled
aranet fr	## : bad	Result	RLE	Test Date, Time, Jualy
N- HITROSCO IMETHYLAMINE	SPA Method 6270	#0 ug/l	6.2C ug/1	C9/11/02 05:51PM F EB
218(2-CKLOROSTHYL) STHER	EPA Method #370	#D 4g/l	4.00 ug/1	C9/11/02 05:51PM J ##
1,3-bfCFTGROBERASENS	FPA Yethod 6370	ил нg/1	7.33 ng/1	G9/17/82 05:51PM FEB
1,4-DICHIOROPENZENE	EPA Yethod 8370	нп ug/1	7.46 ng/1	09/17/83 05±53PM # <i>8</i> R
SENSYL ALCOHOL	EPA Method £370	ND ug/l	14.2 ug/1	C#/11/02 US:51PM # EB
1,2-dicklorgeenzene	EPA Method 6270	NO ug/l	7.17 ug/l	C9/11/02 OS:51PM A CB
Bis(2-chloroisopropyl) ether	MPA Method #370	HD ug/l	1.66 ug/l	C9/11/02 OS:S1PM A3B
n-nitroso-di-u-propylamine	EPA Method 6370	. ND ug/l		C3/11/02 05:51PH A 38
HEXACHLORO THIANS	BPA Method 0270	. #0.ug/l	1.77 ug/l	C9/11/02 03:51PM A 20
n i trojen ene	SPA Yethod 6370	no na/T	3.35 ug/l	C9/11/02 05:51PM A 35
ISOPHERONE	BPA Yethod #270	No ug/l	6.02 ug/l	C9/11/02 D5:51PM A 18
ENZOIC ACID	EPA Method 6270	NO nd/T	#7.2 ug/L	C9/11/02 D5:51PM A B
L, 2, 4-TRICHLCROBENSENS	EPA Method #270	00 ug/l	11.22 ug/l	C9/11/03 05:51PM V 18
APHTHALENZ	EPA Method 6270	93.3 ug/1	1.95 ug/1	C9/11/03 05:51PM A IB
- Chlcronn Illine	EPA Method 5270	ND ug/l	:5.1 ug/l	C9/11/02 05:510M A H
exacadoros utad i ene	APA Method EV/U	. ผม นฐ/1	:.34 ug/l	CA\TT\GS AP:PINH W R
- NETHILLA PHIHELENE	EPA Method EPVU	13.3 J ug/1	:/.= ug/l	Ch/TT/G5 GPFPINN W R
	EPA Method 6270	#D 4g/l	14.5 10/1	C3/11/02 05:519H A B
		•	 -	,,
Hexachlorocyclopentadiene 2- Chloronaphthalene 3- Kitroantoonr	EPA Method 6370 EPA Method 6370	#D ug/l	:.36 ug/l	C9/11/02 05:51PM A/B G9/11/02 05:51PM A/B

A result of "HC" indicates the concentration of the analyte tested was either not describe or below the RLs. Definitions: NC=not detected, MSG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accilen TNTC-toc fumcrous to count

INTO-too functions to count
A result satisfied with *DRY* indicates that the result was calculated and reported an a dry* right books.
All analysis, except field tests are conducted in Southanston, PA unless atherwise identified.
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QC Inc's laboratory cortification ID's are, Southampton (KELAF) PADER OF-131,NUDER PA166. 4TN-MELAF labor Wind Gap-NJ PACO1. Allcest-MJ 02015, Vineland-MJ 06003; PA 66-580.

All samples are collected as "grab" samples unless otherwise (dentified.

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09/16/02 02:26pm.

	e associates pa e associates pa		t.o. Ho. (PO2-5444 PASID NO:	Int. No:
Sample Number Sample Descrip			Samp. Date/Pime/Temp os/os/02 Di.copm MAPF	Sampled by Customer Sampled
	me: had	Result	AL:	Test Cate, Time, Aba
azanet sr	EPA Method 6270	20 ug/1	14.g ug/1	59/11/02 05:51PM ACE
SINGTHEL PHEHALATE	EPA Vethod E370	6,91 J ng/1	5.23 ug/1	09/17/03 05:51PM ARB
A CENA PHTHY" ENS	SPA Method 8270	no uu/1	3.62 uy/1	CS/11/02 03:31PH AEB
2, 6-DINITROTCLUENE	gra Method 6270	no ug/1	41.6 ug/1	C9/11/02 05:51PM AEB
3-HITROANILING	EPA Method 6170	4. E. C.	5.77 ug/l	C9/11/02 05:51PM ACE
acenaphthene		no ug/I	32.1 ug/l	C9/11/02 05:51PM AEB
] [BEH ZOF URAN	EPA Method 6370	מט עק/1	11.c ug/1	C9/11/02 05:51PH AGE
2 4-DINITROTCLUSHE	EPA Method £370	_	s.16 ug/l	69/11/02 05:51PH 488
STATAMENTH STATE	EPA Method #270	ND ug/1	5.14 ug/l	C9/11/02 05:51FM NED
A CHECKOMICHTE PHENYL SCHOOL	EPA Method 0270	no ug/l	5.1c uq/l	C9/11/02 05:51PH NED
elvarena	EPA Mothod 6376	23.6 ug/l		C9/11/02 05:51PH LEE
4-HITROAHILINE	EDA Method E2TG	NO 49/1	13.6 ug/L	
1 2-DIPHENYLHYDRAZINE	EPA Method E370	ND HG/I	5.52 ug/1	C9/11/02 05:51PH \ES
A - HITROSOO I PH CNYLYMI ME	EPA Method 6270	עט מא	3.96 ug/l	
4-BROYOPHENYL PHENYL STHER	EPA Method 6370	ND 49/1	5.10 ug/l	C9/11/02 05:51PM \EB
MERACALUMUMENTENE	WA Method WY/U	но ug/l	4,34 ug/1	CA/17/07 02:PM CM
FRENAMINENS	era xethod erve	74,7 4g/l	3.7 <u>1 ug/l</u>	Cy/11/02 U5:51PM EM
ANTHRACENE	EPA Method #270	17.1 J ug/l	6.17 ug/l	C9/11/02 05:51PM .EB
CARBAZOLE	EPA Method 6270	20 ug/l	19.5 ug/l	C9/12/02 05:51PMEB
CI-N-ESTYL PHTHALLTE	EPA Method 4378	to ug/l	4.5£ Ug/l	C9/12/02 05:51PM . ##
FLUGSSTHENE	EPA Veilland 8370	17.9 ug/l	4 ,34: Hy/1	. 09/11/03 05:51PH ERR
PRNETTINE	EPA Yethod 6370	ลก ug/1	370 . 11 g/]	04/11/03 05:51PM + ER
FYRERE	EPA Method \$270	44.2 ug/1	4.42 ug/3	C9/11/02 05:51PM / ZB
BENZYL PRIHALATE	EPA Method 8270	ND ug/l	14.5 ug/l	09/11/02 05:51PM / EB
).3'-SICHLORCBENSIDINE	EPA Method #170	no ug/l	. 153. ug/l	C9/11/02 05:51PH / EB
BENZO (A) ANTHRACENE	EPA Method 6370	11.3 J ug/l	(.05 ug/l	C9/11/02 05:51PM JEB
CHRYDENS	EPA Method 0270	11.1 7 ug/l	3,71 u g/l	C3/11/02 D5:51PN F DD
310(2 ETHYLHENYL) PHTHREATE	EPA Mcthod 6370	0.25 J ug/l	1).1 ug/l	09/11/02 05:51PM 4 65
ST-H-CCTYLDHTHALATE	EPA Method \$270	ND ug/l	1.26 ug/l	09/11/03 65:515M # 68
ZENZO (B) FL DORANTHENS	SPA Method 6270	5.46 J ug/L	3.\$2 ug/1	C9/11/02 05:51PM ACB
BARHTHAROCAT (X) OSHIE	EPA Mathod 6270	6.71 J ug/l	i.15 Ug/l	09/11/02 DS:S1PM A 28
BENEO (A) PYRENC	EPA Xethod 9270	10.3 J uq/I	:.47 ug/l	C9/11/01 05:51PM A 38
INDENC(1.2,3-CD) PYRENG	CPA XEChod \$270	no ug/l	:.3c ug/1	C9/11/02 OS:51PM ACB
LIBERY (A.H) ANTHRACENE	wa method 6270	au ug/l	1.64 ug/l	CY/11/02 05:51FM A 88
FENZU (C'H'I) FEKATFUS	kwa xethod ezwa	4.81 J ug/l	3.94 ug/l	CA/TC/AS APIPIN V IR
BEARTEM (Y XORTBOROLKY)-C) RIE	EPA xethod 6270	AD rd/T	∴,se ug/l	C9/11/02 05:51PH A 38
CHENON	EPA 3270 Library Search	67.3 J ug/1		E9/11/02 05:51PH A IB
APMALARUM 2' 1-NELMAL'.	EPA 5370 Library Search	77.5 (N 114/1		69/11/02 65:51PM A B

A result of "HE" indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: NO-not detected; MEG-negative; POS-positive; CDL-colonies; RLs-laboratory repairting limits; L/A-laboratory aco: den INTC-toc runcrous to count

Throtton numerous to count

A requit marked with "DRY" indicates that the requit was coloulated and reported on a dry "might basis.

All chalycis, except field tests are conducted in Southanpton, PA unless otherwise identified.

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Actual times of analysis for parameters reported <00 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.

QC Inc's laboratory certification ID's are: Southarpton [KELAP] DADER 09-131,NJDED PALSE. 1-IN-HELAE labor Mind Gap-NJ PROSI, Allcest-HJ 02015, Vineland-BZ 06005; PA 66-550.

all samples are collected as "grab" samples unless otherwise .dentified.

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Type an. :

09/16/02 02:26pm

A000	ie associates pa ie associates pa		0.0. No. 1'P02-5444 PWSID No:	ID7, No:	
Sarple Number Sample Description 2941215-5 5444-81 GW			Samp. Date; lme/Temp 09/05/02 04:10pm MA'F	Sampled by Customer Sampled	
Parameter	· re_bcd	Res'l' t	ALE	Test Date, Time, An	nely
TINETHYLDAPHTHALENE LSOMER	EPA 3270 Library Search	27.6 7 ug/l		CP/11/03 05:51PM AE	CE .
AURSTITUTED FAN	EPA 3270 (thrary Search	25.2 T 11g/1		09/11/03 05:51PM RE	F.R.
CHLORCHETHARE	EPA Method 6260	No ug/l	2.50 uy/l	C9/13/03 10:31AM CL	i.K
VINYL CHLORIDS	EPA Method 6260	No ug/l	2.00 ug/l	CF/13/02 10:31RM EL	LK
PROMOMETHANS	EPA Method 6160	no ug/l	13.6 ug/l	C9/13/02 10:31AM CL	ůK.
CHLORGETHANE	EPA Mechod 6160	ND ug/1	20.0 ug/l	CS/13/03 10:31AM CL	.K
1 1-DICHLOROETHENE	EPA Mcthod 6160	90 ug/l	3.00 ug/1	C9/13/02 10:31AH TL	.K
ACETONE	EPA Method E260	17.4 J up/1	13.C ug/1	C9/13/02 10:31AN IL	. It
EARDON DIDULEIDE	EPA Method 0200	HO ug/l	13.0 ug/l	C9/13/02 10:31AM TL	.K
METHYLENE CHLORIDE	EPA Schod 0200	go ug/l	13.C ug/l	C9/13/02 10:31AH 2L	. K
TRANS-1, 2-DICKLORCETHENS	EDA Method 6260	ND ug/L	2.00 ug/l	C9/13/02 10:31RM :L	.K
ACROLEIN	EPA Method #260	No ug/1	23.0 ug/1	C9/13/03 10:31AM IL	
ACRYLOSITRILE	EPA Method 9360	ND ug/1	15.c ug/l	CP/13/03 10:31PM :24	
1.1-DICHLORGETHAME	EPA xechod 6360	ND ug/l	2.00 ug/1	C9/13/02 10:31AM !L	
RETWEE TERT LAKE BULTE STORE	EPA Kethod eleu	MD 49/1	2.00 ug/1	CP/13/02 10:31AM !L!	
SINYL ACETATE	EMA Method Wieu	NU 49/1	10.0 49/1	LI MALEIUE EU/EE/KS	
CIS-1, 2-DICHLORGETHENE	EPA Method 6260	#0 ug/l	2.00 ug/l	C9/13/02 10:31AN 13	
2-BUTAHONE	EPA Xethod 6260	no ug/l	13.6 ug/l	C3/13/02 TG:3TW (F)	
CHLOROFORM	EPA Xethod 6260	#D ug/1	1.5C ug/1	C9/13/02 10:312M TJ	
1 1,1-TETCHT-CROSTHANS	SPA Yethod 6360	NO 119/1	2.56 ug/1	61/13/02 TO:31AM . M	
CAPBON TETRACHINE TOE	EPA Vechnd E360	an ug/1	1.00 ug/1	C9/13/02 10:318M : IA	
BENSENS	EPA Method #260	9.60 J ug/l	2.00 ug/l	C9/13/02 10:31AM : LH	
1, 1-DICHLORGETHANE	EPA Method 6260	#D ug/l	1.50 ug/l	C5/13/02 10:31AM ; LE	
TRICHLOROETHENB	EPA Method 6360	•	1.50 ug/l	C9/13/02 10:31AM ; LK	
1.2-DICHLOROFROPANE	EPA Method 6260	NO ud/l	1.00 ug/l	C9/13/02 10:31AH (LE	
PROMODE CHEOREMETHAND	EPA Method 0300	#D ug/1	1.0c ug/l	C9/13/02 10:31AM (CK	
3 CHEGROSTHYL VINYL STHES	DPA xcthod 0260	ND ug/1	75.C ug/l	C9/13/02 10:31AH (LK	
CIE-1,3-DICHLOROPROPENE	EPA Xethod #240	ND uq/l	1.50 ug/1	C9/13/02 10:31AH CLE	
4-NETHYL-2-PENTANCHE	EPA Method 6260	8D ug/1	4.0C ug/1	C9/13/02 10:31AH CLK	
TOLUENE	EPA Method 8260	NO ug/l	2.50 ug/l		
TAJUS-1,3-D;CHLORCPROPEHE	EPA Method 6360	ND ug/1	.a.c ug/1	C9/13/03 10:31AN CLK	
1.1.2-TRICHLORGETHANE	EPA Method 0360	80 ug/l	3.00 ug/1	C9/13/03 10:31AM CLK	
TETRA CHLORUETHENE	EPA Method #240	#D 49/1	:.uc ug/1	C9/13/03 10:31AM CJK	
3-MEXAHONE	MA Method W280	NU ug/1	a.uc ug/1	C9/13/02 10:31AM CJK	
DIEROMOCHLORCHETHAME	EPA Method 4240	אם עק/ב	l ac.::	X' 2 MWTE:07 50/CT/63	
CHLORCABNZENE	EPA Method 6260	ND ug/1	:.oc ug/l	C8/13/02 10/31RM 2.K	
STHYT ARNZENS	EPA V-1 loud #260	7 15 7 m/1	; .uc ug/1	C8/13/03 10/31AN C.K	-

A result of "NC" indicates the concentration of the analyte rested was either not described or below the HLs. Definitions: NE-not detected; MEG-negative; PDS-positive; CDD-colonies; RDa-laboratory reporting limits; L/A-Laboratory and den INTC-too numerous to count

A result marked with "DRY" indicates that the result was saloulated and reported on a dry usight basis.

All analysis, except field tests are conducted in Southampton, CA unless otherwise identified.

EPA Veilland ERAN

The test pH labis analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported 430 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted ...

QC Incis laboratory certification ID's are: Southarpton (NELAP) SADER 09-131,NJDES PALEE. I'M-MELAE labe: wind cap-MJ PACOL. Alltest-MJ 02015, Vineland-MJ 05005; PA 68-130.

All Samples are collected as "grab" samples unless otherwise identified.

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59/13/02 10:31KM 5 .E



09/16/02 02:26pm

Actount No: 80 Project No: 80		e aseociates pa e associates pa		1112-50' t isk .C.7 :ON GLEKS	In7. No:
Sample Number	Sample Descrip	tion		Samp. Date/1:me/Temp 09/05/02 ኃ4፣።Opm ዘዴንዮ	Sampled by Customer Sampled
Paranet #F		Me : bcd	Result	Rf.a	Test Date, Time, . maly
YEP-IYLENES		EPA Xethod 6260	HD ug/l	3.50 ug/l	C9/L3/D2 10:31RM "LK
C-XYTIENS		EPA Yethod 6360	3,33 J ug/1	2.00 ug/l	09/13/02 10:31AM T.K
STYRENE		SPA Method \$260	ND wy/l	4.50 uy/l	C9/13/02 10:31RM . LK
ROMOFORM		EPA Method 6260	NO ue/l	10.0 ug/l	C9/13/62 10:31AM : LK
1, 1, 1, 2 - TETR	CHLORGETHANE	EFA Method 6260	10 ug/l	2.0C ug/1	C9/13/02 10:31AM : LK
1 3-DICELORDE		EPA Method E260	HD ug/1	1.50 ug/l	C9/13/02 10:31AM : LE
1 4 DICHLOROE		EPA Kethad 6260	no ug/l	3.50 ug/1	NJ: MALE:01 E0/E1/e0
1.2-DICHLORGE		EPA Mathod 6360	#D ug/l	3.50 ug/l	C9/13/02 10:31AH : LK
CHUNON ARONA		GPA 3200 Library Se			09/13/03 10:31AH :UK
NAPITTIAL ENG		EPA 9360 Cibrary Sci			C9/13/02 10:31AH TUK
				· · · · · · · · · · · · · · · · · · ·	
Sample Maner	Sample Descript	ion		Samp. Date/75 he/Ton::	Sampled by
,D11115-6	5144-87 CT			TIME ELLE COVER NATE	Customer Sampled
	Received Trap:	37*F Iced (Y/N): Y			
21186027		Hetbod	Heeult	:电路	ween ware, wime, asaly
M-NITROSODIME		CPA Method 6270	#D ug/l	4.86 ug/l	C9/11/02 06:349H A 22
BIS(2-CHLOROE	THEL) ETHER	EPA Method 6370	#D ug/l	n.ec ug/1	C9/11/02 06:34PM A B
1,3-DICHLORDE	THICHE	EPA xethod #270	## ug/l	#.86 ug/1	C9/11/02 06:34PM A 38
1,4-DICHIORDE	ENSENE	EPA Vellind 4374	RD sig/1	1.0e ug/1	64/31/02 05:34PH A IR
PENEZY ALCOHOL	•	RPA Yethod Path	ทก eg/1	3 - 1 - 1 3 - E 11g/1	C9/11/02 05:34PM A :R
1,2-DICHLORGE	meene	SPA Method #270	no ug/l	!.8C ug/l	C9/11/02 06:34PM A B
BISI2-CHLOROIS	iopropyl) ether	EPA Method 8370	ND ug/l	1.44 ug/l	C9/11/02 06:342H A B
N-HITROSO-DI-N	-PRCPYLAMINE	EPA Method E170	f\eu 08	1.04 ug/l	C3/11/02 D6:34PH A B
HEXACHLOROSTHA	Ne .	EPA Method E270	80 ug/l	i.32 ug/1	C9/11/02 06:34PH A:B
A CAMO SCH SENB		EPA Method .0370	HD ug/l	:.00 ug/l	C9/11/02 4G: D4PM A1B
IBOPLICACHE		CPA Method 6270	NO ug/l	76 ug/l	C9/11/02 OG/34PM ALD
BENZOIC ACID		ETA Xethod 6270	NO ug/l	49.7 ug/l	C9/11/02 06:34PM AIR
1,7,4-TRICHLOR	08Enzene	EPA Method E270	1\pu 0K	1\pu 38.	C9/11/02 06:34PM ALB
NA PHTHALEN 2		EPA :xethod: #270	15.5 J ug/1	+ .60 ug/l	C9/11/03 06:34PM ALB
1- CHLCROAD ILIN		EPA Method 9270	ND ug/l	: 1.3 ug/l	C9/11/03 06:34PM AT 3
HEXACHLOROBUTA		EFA Method \$270	NO ug/1	(.05 ug/l	C9/11/03 06:34PM AL3
A- HETHTUNA SHITH	RLENE	EFA Rethod 8279	6.43 J ug/1	(1.1 ug/l	EA/27/05 00:345W WFF
ЧЕХАС ЯГОВО СЕСТО	THEM AUTEME	MPA Method egyo	au ug/l	: 1.1 ug/l	CS/11/02 GE:34PM ALI
2 - CHECRONA PHIN	LENE	EPA Method 9270	20 ug/l	4.04 ug/l	C#/12/02 06:34PM AE:
				· · · · · · · · · · · · · · · · · · ·	
2-HITROAUILINE CINETHYL PHYNAI		EPA Xethod 6270	ND 49/1	13.7 ug/l	C9/11/02 06/34PM AT 1

A result of "MC" indicates the concentration of the analyte tested was either not detected in below the RLs. Definitions: NC=not detected; NRG=negative; PDS=positive; CD=colonies; RLs=laboratory reputting limits; L/k=laboratory acri en INTC-ted numerous to count

Page 19 of 24

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A result harked with "DRY" indicates that the result was calculated and reported on a dry which basis.

All condyrie, except field tests are conducted in Houthampton, (A unless otherwise identified.

The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.

Actual times of analyzes for parameters reported <30 hrs are available upon request. All totting is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southarpton (NELAP) PADER, 09-131, NUMER PAISC, 19-9-METAP laber Wind Cap-NJ PROSE, Alltest-nu 02015, Vineland-nu 06005; PA 68-550.

All samples are collected as "grab" samples unless otherwise : ientified.

09/16/02 42:2625

ACENARTHYLENE 2,6-OTHITACTULURNE 2,6-OTHITACTULURNE 3-NITACHNILINE 21ESHEOFURAN 2,4-DINITACTULURNE 21ESHEOFURAN 2,4-DINITACTULURNE 21ETHYLPHYHALATE 4-CHUCROPHENYL PHENYL STHER 4-CHUCROPHENYL PHENYL STHER 5-CHUCROPHENYL PHENYL STHER 4-NITACHNILINE 1,2-DIPHENYLHYDRASINE 5-HITACHNILINE 1-BROWOFURNYL PHENYL STHER 4-EXACHLOROBENZENE 5-HEMANTHERE 5-HEMANTHERE 5-CHUCRART	Method PA Method 6270 PA Method 6270 PA Method 6270 PA Method 6270 PA Method 6270 PA Method 6270 PA Method 6270 PA Method 6270	Result #0 ug/1 #0 ug/1 5.36 y ug/1 4.04 J ug/1 EQ ug/1	Samp. Data/Pime/Pebp 05/05/02 04:15pm NAPP ALS 4.96 ug/L 1.44 ug/L 39.1 ug/L 5.48 ug/L 30.4 ug/L	Bampled by Customer Sampled Test Date, Time, Analy C9/1_/02 O6:34PM AER C9/11/02 O6:34PM AER C9/11/02 O6:34PM AER
ACENARMINELENE 2.6-OTH TROUGHENE 2.6-OTH TROUGHENE 3-NITROANLINE 1 ESAFOTHENE 1 ESAFOTHENE 2.4-DINITROUGHENE 2.4-DINITROUGHENE 2.4-DINITROUGHENE 4-CHECROPHENYL PHENYL SCHER 5-CHECROPHENYL PHENYL SCHER 4 NITROANILINE 1.2-DIPHENYLHYDRAGINE 5.NITROSODICHENYLANINE 1-EROMOFMENYL PHENYL STHER 4 PEXACHLOROBENZENE 5 PHENANTHENE 5 PHENANTHENE 5 INTROCHER 5	CPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270	#0 ug/l #0 ug/l #0 ug/l 5.36 J ug/l 4.04 J ug/l #0 ug/l	4.96 Ug/L 3.44 Ug/l 39.2 ug/l 5.48 Ug/l	C9/1_/02 G6:34PM REE C9/11/02 G6:34PM AER C9/11/02 G6:34PM AEB
ACENA FATHYLENE 2, A-OTH ITROTCHUENE 3-AITROMNILINE ACENA FATHENE LIBERTOF URAN 2, 4-DIN ITROTCHUENE LIBERTOF URAN ENGLEROPHENYL PHENYL ETHER CLUGGENE 4 MITTOANILINE 1, 2-DIPMENYLHYDRAZINE 5 MITTOANILINE 1-BROWOFMENYL PHENYL ETHER EN MITTOSODIPHENYLAMINE 1-BROWOFMENYL PHENYL ETHER ENEXACHLOROBENZENE ENEXACHLOROBENZENE ENEXACHLOROBENZENE LIME 20TIL PHINALATE FLUGGARTHEME ENEXACHLOROBENZENE ENEXACHLOROBE	SPA Yethod 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6270	жл цд/1 жл цд/1 5.36 J цд/1 4.04 J цд/1 ED цд/1	3.44 Hg/l 39.2 kg/l 5.48 kg/l	CV/11/02 06:34PM AER CV/11/02 06:34PM AEB
3-NITROBNILINS ACEMAFHTHENE ILEAROFURAN ELEAROFURAN E. 1.4-DINITROTCLUENE E. 1.5-THINIPHTHALATE I-CHLCROPHENYL PHENYL ETHER ELUGRAN I NITROBNILINE I. 2-DIPHENYLHYDRAZINE N'NITROBNOLIPHENYLANINE I'-BROMOPHENYL PHENYL ETHER ELWARTHORNENE EHMENANINENE EHMENANINENE EAUTHORNENE I-PERSTEDNICHE ELUGRANITHENE ELUGRAN	SPA Method 6270 SPA Method 6270 SPA Method 6270 SPA Method 6276 SPA Method 6270	no uy/l 3.36 J ug/l 4.04 J ug/l EQ ug/l	39.1 ug/l 5.48 ug/l	C9/11/02 06:34PM AEB
3-NITROANILINS ACENACHTHENE ELEGNEOFURAN 2,4-DINITROTCLUENE ELETHYLPHTHALATE 4-CHLCROPMENYL PHENYL ETHER ELUGRENE 4-NITROANILINE 1,2-DIPHENYLHYDRAEINE 5-NITROSODICHENYLANINE 1-BROMOFMENYL PHENYL ETHER ENEXACHLOROBENENE ENEMANTHENE ANTHRACUME CAPELROLE II-M-20TILPHTHALATE ELUGRANTHENE EMENTINE ENEMITORE	SPA Method 8270 SPA Method 8270 SPA Method 8270 SPA Method 8270	3.36 J ug/l 4.04 J ug/l EQ ug/l	5.48 ug/l	
ILBENTOFURAN 2, 4-DINITROTCLUENE 2, 4-DINITROTCLUENE 3 ETHYLPHTHALATE 4-CHLCROPHENYL PHENYL STHER 5-LUGGENE 4 NITHOANILINE 1, 2-DIPHENYLHYDRAZINE 1-BROWOFNENYL PHENYL STHER 5-BROWOFNENYL PHENYL STHER 6-BROWOFNENYL PHENYL PHENYL STHER 6-BROWOFNENYL PH	PA Method 6270 PA Method 6270 PA Method 6270	4.04 J ug/l ED ug/l	**	C9/11/03 GE:34PM BER
2,4-DINITROTCHUENE 2:ETHYLPHTHALATE 4-CHOCROPHENYL PHENYL STHER 5-CHOCROPHENYL PHENYL STHER 6-CHOCROPHENYL PHENYL STHER 7-CHOCROPHENYL PHENYL STHER 8-CHOCROPHENYL PHENYL STHER 8-CHEMANTHENE 8-C	PA Method 6270 . PA Method 6370	no ug/l	13.4 ue/l	
TIETHYLPHTHALATE 4-CHOCROPHENYL PHENYL STHER 5-CHOCROPHENYL PHENYL STHER 1 2-DIPHENYLHYDRACINE N-NITROSODICHENYLAMINE 1-EROMOPHENYL PHENYL STHER EXACHLORENZENE EM MAANTHEME ANTHACKAE ANTHACKAE CAPELROLE II-H-SOTTL PHTHALATE FLUORANTHEME EM FYPENF	SPA Method 6370			C9/11/02 04:348M REB
TIETHYLPHTHALATE 4-CHOCROPHENYL PHENYL STHER 5-CHOCROPHENYL PHENYL STHER 1 2-DIPHENYLHYDRACINE N-NITROSODICHENYLAMINE 1-EROMOPHENYL PHENYL STHER EXACHLORENZENE EM MAANTHEME ANTHACKAE ANTHACKAE CAPELROLE II-H-SOTTL PHTHALATE FLUORANTHEME EM FYPENF			13.5 ug/l	C9/11/03 06:34PM 4EB
CLUGGENE 4 NITIOANILINE 5 1 2-01PMENYLHYDRACINE 6 N-NITROSODIPHENYLANINE 6 1-EROXOFMENYL PHENYL ETHER 6 MEXACHLOROBENZENE 6 MEMANINGHE 6 ANTHROCKHE 6 CAPERSOLE 6 1-M-20T/LPHINALATE 6 FLUGGABTHENE 6 FLU	ZA Method 5270	NO ug/l	7.76 ug/l	C9/11/02 06:34PM 48B
4 NITROANTLINE 1 2-01PHENYLHYDRACINE 2 N-NITROSODIPHENYLANTHE 1-BROMOFRENYL PHENYL ETHER ENEXACHLOROBENZENE ENEXACHLOROBENZENE ENEXANTHERE ANTHRACERE CAPELROLL PHTHALATE EL LORABTHERE EL LORABTHERE EL PENTITINE ENEXTITIN		HD ug/l	4.86 ug/l	09/11/02 06:34PM AEB
4 NITROANTLINE 1 2-DIPHENYLHYDRACINE 6 N.NITROSODIPHENYLANTHE 1-BROMOFMENYL PHENYL ETHER 6 NEXACHLOROBENZENE 6 HERANINMENE ANUMMACHME 1APEL ZOLC 11-N-20TIL PHIMALATE 6 FL LORANTHENE EMER	PA Mothed 0270	0.13 J ug/l	4.04 ug/l	C9/11/02 0G:34FM \&B
1 2-DIPMENYLMYDRASINE N-NITROSODIPMENYLAMINE 1-BROWD PHENYL PHENYL STHER HEXACHLORDSENSENE EMERANIMENE ANTHRAUERE CAPER FOLC II-M-SOTTL PHINALATE FL UGRANIMENE EMERITIME EMERITIME EMERITIME EMERITIME EMERITIME EMERITIME	PA Method 6270	10 ug/l	36.8 ug/1	C9/11/02 DG:34PM \80
N-NITROSODICHENYLAMINE 1-BROMOPHENYL PHENYL STHER MENACHLOROBENZENE EMERAN-MENYL ANTHRACENE CAPELZOLC CI-M-20TTL/MITHALATE FLUORABITHENE FENTITINE FYPERF	PA Method 6270	NO ug/L	\$.24 ug/l	C3/11/03 06:34PM 1EB
1-BROWDENENTL PHENTL STHER HEXACHLOROBENZENE ENHEMANINHEN ENHEMANINHEN ENHEMANINHEN ENHEMACHME CAPERZOLE EI-H-20T(L)MITHALATE EI FLUORABITHENE ENHEMICKE EYPERF	CA Method E270	NO 49/1	3.7£ ug/1	CD/15/00 06:34PM 128
HEXACHLOROBENZENE E FHERANTRIKENE E ANTRIACENE E CAPEL ZOLE E DI - N - ZOT'LL PHTHALATE E FL CORANTRIENE E ZHINZI T'NE E FYPERF E E FYPERF E E	PA Method 6270	80 uq/1	4.04 ug/1	C9/11/03 06:34PM LEE
UN MEANTHEME MEA	PA Method E370	ND ug/l	4,16 ug/l	C9/11/02 06:34PM LEB
CAPERROLS SECTION THALATE SECTION ASSOCIATED SECTION ASSOCIATED SECTION ASSOCIATION ASSOCI	PA Method Wavu	17.2 ug/l	3.52 ug/l	09/11/02 04:34PM LEM
II-M-POTTLIPHTHALATE EL FL UGRABTHEBE EL GRABTITAR EL FRANTITAR EL FYPENE EL	PA Xethod V2Vu	1.44 J uq/l	1.94 ug/1	CA\TT\03 00:346W 'SR
FL UGRAFTHAME EL RENTTAME . FI	PA Method 6270	4.84 J ug/l	18.5 ug/l	C9/11/02 06:34PMEE
	PA Method 6270	no ug/l	6.36 ug/l	E9/1_/02 06:34PM . EB
FYP RMF FU	PA Method 6270	10.7 J ug/l	4.15 ug/1	C9/11/02 05: 14PH ; EB
	a veilmi exto	ND ug/1	334 . ng/1	G4/1*/02 06:34PH : EB
****** ****** ***** ***	nesa bodsey As	A.44 Tug/1	4,74 tig/1	C9/1"/02 06:34PM 1 ER
SALIR BOUGED LUYDURNID FI	A Method 8270	. no us/1	13.6 ug/l	C3/11/02 06:34PH / EB
3,3'-CICKLORCBENZIDINE ES	A Method 8370	#D ug/l	154. ug/l	C9/11/02 06:34PM JEB
BENSO (A) ANTHRACENE EE	A Method 6370	3.25 J ug/l	1.86 ug/l	C5/11/02 06:34PH / EB
CHRYSENE E	A Method 6270	ND ug/1	3.52 ug/l	C9/11/02 OF:34PM 3 EB
215(2 ETHYLHEXYL) FHITHALATE EP	A Mcthed 6370	0.40 J.ug/l	10.5 ug/l	. C3/17/05 DC:346W 1 GD
DE N COTYL PHYNALATE BY	A Method 0370	80 ug/l	5.04 ug/l	C9/11/02 DG:34PM A BD
BENSO (8) FLUORANTHENE EP	A Method 6270	NO ug/1	3.44 ug/l	25 V HOFE'S 20/11/65
BEN20 (E) FL JORANTHENE EP	A Method E270	I/pu OK	5.84 ug/L	C9/11/02 06:34PM A 28
	A Xethod 6370	80 ug/1	;.34 ug/1	C9/11/03 06/34PM A (B
	A Method £270	ND ug/1	:.06 uq/l	C9/11/02 06:34PM A IR
	A Xethod 6270	#D ug/1	4C ug/1	Caltion Deigram V 28
	A Method 637d	NO ug/1	0.40 ug/1	
	a Xethod 9279	#U ug/1	4.44 ug/l	C9/11/02 06:34PM A N
	R #2:0 Library Search	22.3 JN 49/1	wiee agyl	U9/12/02 Dermann A A
	1 3270 Library Search	10.3 J ug/1		C2/11/02 06:34PR A E
	A 7770 Tilerwry Sea esh	33.5 J ug/1		C9/11/02 OC:349H A B

A result of "MC" indicates the concentration of the analyte rested was either not described or below the RES. Definitions: HD=not detected: HEG=negative; PDS=positive; CDL=colonies; RLu=laboratory reporting limits; L/A=laboratory augilien THIC-toc cumerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry tright basis.

All analysis, except field tests are conducted in Southington, PA unless otherwise identifyed.

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QC Inc's laboratory certification ID's are: Southampton (MELAP) DADER 09-131, MIDEP PAIRS. NIN-MELAF labs: Mind Cap-NJ PACCI, Alltest-NJ 02015, Vineland-NJ 060C5; PA 66-130.

All mamples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:26pm

X000 410 4-1 -1111	HE ASSOCIATES PA	,	P.S. No: 'PO2-5444 PMSID NO:	IN7. No:
Sample Mumber Sample Decaring	ption.	Samp. Date/Mine/Temp 09/05/02 Da 15pm NA*F	Sampled by Customer Sampled	
Paramete ^r	Hetbed	Result	RLs	Test Date, Time, Analy
CHENORS ALKANE-1	EPA 3270 Library search	20.3 Jug/1	-	CP/11/02 OF:34PM AES
UNKHONN BUKANN-S	EPA 8270 Fibrary Search	27 a 7 ng/1		C4/11/02 GK:34PM ARR
CHENORM ALKANE-3	EPA 9270 Cibrary Scarch	25.4 J uy/l		C9/11/02 06:34PM AES
UNINOWS ALKANE-4	EFA 3270 Library Scarth	27.3 J ug/l		C9/11/02 06:34PM AES
UNKNOW! ALKANE-5	EPA 9270 Library Search	30.5 J ug/l		C9/11/02 06:34PM 4EB
IN MONTH ALKANE - 6	EPA 3370 Library Search	26.5 J ug/l		C9/11/02 06:34PM 4EB
CHENORI ALKANE-7	EPA 3270 Library Scarch	15.6 J ug/l		C9/11/02 06:34PM 4EB
CHENGRA ALEANE-#	EPA 3270 Library Scarch	19.4 J ug/1		C9/11/02 06:34PH \CB
CHLOROMETHANE	SPA Method 0260	#D ug/1	2.50 ug/l	C9/13/02 11:03AM 1LK
VINYL CHLORIDE	EPA Method 0300	2.75 J ug/l	2.8C ug/l	C9/13/02 11:02AM TLK
3 nono metha me	EDA Method 6160	No ra/t	10.c ug/1	C9/13/02 11:07kM TLK
CHEGREETHANE	EPA Method 6160	NO mall	25.C ug/1	C9/13/02 11:02AH 3LK
1, 1-DICHLOROETHENE	EPA Method 6260	MO ug/l	3.0C ug/l	CS/13/03 11:03RM 7LK
ACETONE	SPA Method 6160	22.9 J ug/l	15.0 ug/l	C9/13/02 11:02AM :LK
STANDA DIR 105 106	sya kethod eyeu	40 dd/J	10.c ug/l	GA/13/GT 12:03WW SPK
KELHALENE CHTOKTOF	EPA Kethod WYEU	an ma\r	10.0 ug/l	CA\TA\ON JZ'ONW ITK
Trins-1, 2-dichlorcethene	EPA Method 6260	NO 49/1	2.0c ug/l	C#/13/02 11:02EM 12K
ACROLEIN	EPA Method 6380	no ug/l	23.c ug/l	C3/13/05 11:03WH TK
ACRYLON I TRILE	EPA Xethod 6240	NO ug/l.	15.C ug/l	C8/13/85 11:83FM .FK
1, 1-DICHLORGETHANE	FFA Yellud 6360	Tign t. ca.f	a.nc uy/1	69/13/02 11:02EM .TK
VETHYL TERT PRV RITYL STARR	EPA Yethod EXER	#O 11g/1	a.oc ug/)	G9/13/02 11:02EM : 6K
VINYL ACETATE	EPA Method 8260	po ug/l	12.5 ug/l	C9/13/02 11:03AM : LK
CIS-1.2-DICHLOROCTHENE	EPA Method #260	2.50 J ug/l	2.00 ug/l	C9/13/02 11:03AM (LK
2- BUTANONE	EPA Mothod 6260	20 ug/l	ta.c ug/l	09/13/02 11:02AH (LK
CHLORGFORM	EPA Method E260	NO ug/l	1.5c ug/l	C9/13/02 11:02AH (LK
1, 1, 1 TRICHLEROETHANE	EFA Yothed 0260	qo na\r	2.50 ug/l	C9/11/02 11:03AM (UK
CARBON TETRACILORIDE	EPA Mcthed 0360	NO ug/l	1.00 ug/l	C3/13/02 41:03AM : LK
2 ENICHE	EFA Method #260	5.00 J ug/l	1.00 ug/1	C9/13/02 11:02RM CLK
1,2-DICHLOROETHANE	EPA Method 6360	ND rd/T	3.50 ug/l	C9/13/02 II:02AN CSK
TRICHLOROETHEDE	EPA Xethod 6260	ND ug/l	11.5C ug/1	C9/13/63 11:03AM EUK
1, 3-DICKLOROFROPANE	EPA Method E360	ND ug/1	::.00 ug/l	09/13/02 11:03/M C1K
PROMOCI CHLORCHETHANE	EPA Xethod 8360	NC ug/1	::.0C ug/1	C6/13/03 77'03YW 5 X
2-CHLCROETHYL VINYL STREET	ERM WETHOU AREA	NO 49/1	::5.0 ug/l	U9/13/02 31:03AM C.K
CIS-1,3-DICKLOROPROPERE	tva Method Vyeu	1/6h rig	sc ug/l	UP/13/09 11:02AM 2.K
4 - METHYL - 2 - PENTANCHE	EPA Method 6260	NO ug/1	:.oc ug/l	C#/13/03 11:03EM 2 'K
TOLUENE	EPA Method #260	121. ug/l	(.sc ug/l	C9/13/02 11:03RM T.K
TRANS-1,3-DICHTOROPROPERS	EFA Yellind 5260	80 ug/1	15.6 uỷ/ 1	69/13/03 11:038H 7:K

A result of "MC" indicates the execuntration of the analyte tested was either not detected or below the RLs. Definitions: NC-not detected; NEG-negative; PDS=positive; CDL=colonies: RLs=laboratory reporting limits; L/A-laboratory acc: den INTC-toe cumcrous to count

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Accust times of analysis for parameters reported <10 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are: Southeapton (KELAS) PADER 09-131, NIDED PAICE, KIN-RELAS labs: Mind Gap-MF PAGO1, Alltest-BJ 02015, Vineland-BJ 05005; PA 66-540.

All simples are collected as "grab" samples unless otherwise identified.

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09/16/02 02:26pt

X-0-1	DNE ASSOCIATES PA ASSOCIATES PA	······································	PASID No:	Inv. Wat
Sample Number Sample Descri	pe inc		Samp. Date/lims/Temp 09/01/02 04: Spm NA*F	Sampled by Quetomer Sampled
Paramet #I	Method	Restit	AL.s	Text Date, Time, Daly
1 1,2-TRICHLOROETHANE	EPA Method 6260	#D ug/1	2.00 ug/l	C#/13/02 11:02RM LE
TRYRACHIOROSTHENS	EPA Vethod 6260	หก ug/1	7.00 ng/1	09/13/02 11:028M 3.X
2-HEXANONE	EPA Method 8260	ND ug/1	5.0C uy/l	C9/13/07 11:03AM . LK
ZIBROMO CHIJORCHETHANS	EPA Method #360	ND 49/1	2.00 ug/1	09/13/02 11:02KH : LK
CHLORGA ENZERE	EPA Method 6260	HO ug/l	2.00 ug/l	C9/13/02 11:03AH : LK
ETHYL BENZENE	EPA Method 6260	No ug/l	2.00 ug/l	C9/13/02 11:02RM ; LK
YEF-XYLENES	EPA Method #260	8.40 J ug/l	1.50 ug/l	C9/13/02 11:02AM : LK
C-XYLENB	EPA Method #360	4.20 J ug/l	2.00 ug/l	C9/13/02 11:02RM [LR
STYRENS	SPA Method 0360	no 44/1	i.sc ug/l	C9/13/02 12:03RM : UK
MUSTONOLOUR	GPA Mothad 0200	#O ug/l	is.c ug/l	C9/13/62 11:03AM CLK
1, 1, 2, 2 - TETRACHLOROETHANE	ECA Method #260	NO ug/l	1.0C ug/1	C9/13/02 11:02AM CLE
1, 3-DICKLOROBENZENE	BPA Mathad 8260	80 ug/1	∃.S¢ ug/4	C9/13/83 11:02AM CLK
1, 4-dickloror eneene	EPA Method 9360	NO ug/1	::,5C ug/1	C9/13/02 11:03RM COK
1.2-DICKLORDEENZENE	EPA Method 6360	20 ug/1	:1.50 ug/1	C9/13/02 11:03AH CUK
NONE FOUND	KVA 9260 Library Search	NU U9/1		U9/13/09 11/02AM UJK

1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is preauling and had lower than the lowest standard, it is also used to indicate that a company distantiately identified in a library search; "A"compound exceeded the calibration range; "N" presumptive evidence of a compound.

1. A dilution was required to be performed on this sample because of the sample matrix and or interferences by non-target corpounds. The PQL's have been adjusted to reflect the dilution.

L941115-1:

1. A dilution was required to be performed on this sample because of the sample matrix and, in interferences by mon-target compounds. The PQL's have been adjusted to reflect the dilution.

_941115-2;

A result of "MD" indicates the concentration of the analyte leated was either not detected on below the RLs. Definitions: HC_not detected, NGC_negative; POC_positive; COL-colonies; RLs-laboratory reporting limits; L/A-laboratory accilen INTC-toc numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry wight basis.

All analysis, except field tests are condusted in Southmoston, FA unless otherwise identified.

The testiph labis analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported can have are available upon request. All tooking is completed within the requir holding time unless otherwise noted,.

QC inc's laboratory certification in's are: Southarpton (semas) wants us-131, Notes value, inth-selas labs: wind dap-so want, Alltest-HJ 02015, Vineland-HJ 05055; PA 68-520.

All samples are collected as "grab" samples unless otherwise dentified.

Page 12 of 24

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Analytical Results

05/16/02 02:26pm

ADSOURT NO. 800195, WHITESTONE ASSOCIATES
Project No. 800195, WHITESTONE ASSOCIATES

P.S. No: 11 2-E444 Pasid No: Int. No:

1. QUALIFIERS: "E" is used when the compound is found in the blank as well as in the sample; "I" indicates a value that is greathan the NEE but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "seconpound exceeded the calibration range; "N" presumptive evidence of a compound.

1.941115-2:

1. A dilution was required to be performed on this sample because of the sample outrix and/or interferences by mon-target compounds. The PQL's have been adjusted to reflect the dilution.

1941115-3:

1. QUALIFIERS: "B" is used when the corpound is found in the blank as well as in the sample: "J" indicates a value that is greathan the House than the lowest standard, it is also used to indicate that a corpourd is tentatively identified in a library search; "B" compound exceeded the calibration range; "N" presumptive evidence of a compound.

L941115-3+

1. A dilution was required to be performed on this sample because of the sample matrix and or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

_9 · 1 1 1 5 - 3 ·

1. A dilution was required to be performed on this sample because of the sample natrix and, or interferences by non-target enquants. The Posts have been adjusted to reflect the dilution.

.941115-4:

1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is greathan the MDL but lower than the lowest standard, it is also used to indicate that a compound is implicitly identified in a library search; "B"compound exceeded the calibration range; "N" presumptive evidence of a compound.

1941115-4:

1. A dilution was required to be performed on this simple because of the sample natrix and, or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

_y41115-5;

1. A dilution was required to be performed on this sample because of the sample matrix and/or inverferences by non-target corpounds. The PQL's have been adjusted to reflect the dilution.

A result of "ND" indicates the concentration of the analyte tested was either not detected in below the RDs.

Definitions: ND-not detected; NBC-negative; POS-positive; COD-colonies; RDs-laboratory repositing limits; L/A-laboratory accident

INTC-toe numerous to count

A result marked with *DRY* indicates that the result was calculated and reported on a dry weight basis.

All analysis, except field tests are conducted in Fouthampton, FA unless otherwise identified.

The test*pH lab*is analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported #30 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted.

QC india laboratory certification ID's are: Southempton (KELAP) PADER 09-131, NUDEP PAISE, 1609-NELAF labe: Wind Cap-NJ PROGE, Alltest-HJ 02015, Vineland-HJ 06005; PA 68-530.

All samples are collected as "grab" samples unless otherwise : dentified.

7age 23 of 24

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Allen D. Schapbach, President

P C 44 MW



Analytical Results

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1 mg m 4,7 pr m - -

Account No. 200195, WHITESTONE ASSOCIATES

P.O. No: MP02-5444 PASTO No:

IDT. No.

Project No: 800195, WHITESTONE ASSOCIATES

2. QUALIFICAS: "E" is used when the compound is found in the blank as well as in the stable; "J" indicates a value that is great than the MML but lower than the lowest standard, it is also used to indicate that a cospound is tentatively identified in a library search; "k-compound exceeded the calibration range; "N" presumptive evidence of a compound.

 A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target corpounds. The POD's have been adjusted to reflect the dilution.

- 1. A dilution was required to be performed on this sample because of the sample natrix and/or interferences by accordance compounds. The PQL's have been adjusted to reflect the dilution.
- 2. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicated a value that is great than the MDE but lower than the lowest standard, it is also used to indicate that a companied is tentatively identified in a library search, "E"compound exceeded the calibration range, "N" presumptive evidence of a compound.

1. A dilution was required to be performed on this sample because of the sample natrix at i/or interferences by non-target compounds. The PUL's have been adjusted to reflect the dilution.

A result of 'ME' indicates the concentration of the analyte tested was either not detected or below the RLs. Definitions: NC-not detected; NEG-negative; PDS-positive; CDL-colonies; RLs-laboratory reporting limits; L/A-laboratory acciden TNTC-tos numerous to count

A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.

All chalycio, except field tento are conducted in Houthampton, FA unless otherwise identified.

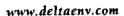
The test ph labis analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes. Actual times of analysis for parameters reported <30 hrs are available upon request. All insting is completed within the re mix holding time unless otherwise noted ..

QC Inc's laboratory certification ID's are; Southarpton (MELAP) PADER 09-131,NJDEP PALSE. CN-NELAE labs; Wind dap-MI PAD01 Alltest-MJ 02015, Vineland-MJ 06005; PA 68-530.

All samples are collected as "grab" samples unless otherwise identified.

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DRAFT. CONFIDENTIAL. ATTORNEY-CLIENT COMMUNICATION

30 March 2005

Phil Bousquet, Esq. Green & Seifter, PLLC One Lincoln Center Syracuse, NY 13202

Re:

Limited Site Investigation Report

Binghamton Plaza

33 West State Street, Binghamton, New York

Delta Project No. 0502010P

Dear Mr. Bousquet:

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the above-referenced property to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. The Limited Site Investigation focused on a number of areas of concern (AOCs) identified during Delta's file review and due diligence, which was completed prior to commencing this site investigation. These AOCs pertained to the historic use of the site as an industrial landfill, as well as a number of former tenants in the plaza, including a dry cleaner, auto parts store and paint store. In addition, AOCs were also identified based on neighboring properties including a former trash incinerator and gasoline station due south of the property, a gasoline station and dry cleaner east of the property (i.e., on the opposite side of West State Street) and a closed gasoline station and automobile repair facility along the northeastern property boundary. This report describes the tasks performed, summarizes the analytical results of sampling activities, and provides a summary of findings.

SCOPE OF WORK

Soil Boring Installations

Ten soil borings (GSB-1 to GSB-10) were installed at the site to evaluate subsurface soil conditions. Soil borings were installed to a maximum depth of 24 feet below grade using a direct-push drill rig. Soil samples were collected continuously from grade to completion at each boring location. Delta's on-site geologist visually inspected and screened all soil samples in the field with a Photoionization Detector (PID) to assess the potential presence of volatile organic compounds (VOCs). A summary and brief



31 March 2005 Phil Bousquet, Esq. Delta Project No. 0502010P Page 2 of 5

description of the purpose of each boring is provided in the table below; soil boring locations are depicted on Figure 1.

Soil Boring ID	Total Depth of Boring (ft)	Purpose				
GSB-1	20	Adjacent to the former incinerator south of the site.				
GSB-2	20	Adjacent to a former gasoline station south of the site.				
GSB-3	24	Downgradient of a dry cleaner and gasoline station east and southeast of the site.				
GSB-4	11.8*	Central portion of the site.				
GSB-5	15	Downgradient of a suspected former onsite dry cleaner location.				
GSB-6	20	Adjacent to transformers and Lindsey Park; and on the downgradient side of the site.				
GSB-7	17*	Near transformers and Lindsey Park; and downgradient of former onsite auto parts store.				
GSB-8	8.2*	Downgradient of suspect offsite features.				
GSB-9	20	Downgradient of former gasoline station and auto repair facility east of the site (Howard property).				
GSB-10	24	North-central portion of the site downgradient of the Howard property.				

^{*} Refusal encountered

Soil descriptions, visual observations, odors, PID readings and other pertinent information for each boring are presented in the Soil Boring Logs (Attachment 1).

Based on field screening data, visual observations, odors and soil boring location, Delta selected six soil samples for laboratory analysis: GSB-1 (12-16'), GSB-3 (16-20'), GSB-6 (4-8'), GSB-7 (12-16'), GSB-9 (4-8') and GSB-10 (16-20'). These soil samples were collected from specific depth intervals in these borings which generally exhibited the greatest impacts (i.e., presence of fill material, elevated PID readings, staining, odors, etc.). The six soil samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals. Soil samples were analyzed by Severn Trent Laboratories, Inc. (Severn Trent), located in Buffalo, New York. Severn Trent is an NYSDOH ELAP certified analytical laboratory.

Upon completion of each soil boring, the borehole was either backfilled or used to construct a temporary groundwater monitoring well. The temporary wells were installed for groundwater sampling purposes as described below.

Temporary Monitoring Well Installations

Six temporary monitoring wells were installed during the Limited Site Investigation to evaluate groundwater quality beneath the site. These wells were installed to a maximum of 24 feet below grade in borings GSB-1, GSB-3, GSB-5, GSB-6, GSB-7 and GSB-9. Each temporary well was constructed of approximately ten feet of one-inch diameter PVC well screen and up to 14 feet of one-inch diameter PVC riser. The well was lowered into the borehole to the desired depth then a silica sand pack was added until the sand was above the top of the screened interval. A bentonite chip seal was added above the sand to prevent any surface water from infiltrating into the well.

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In general, the depth to groundwater and saturated thickness encountered in each of the soil borings drilled during this Limited Site Investigation was not consistent across the site. As indicated in the table below, the total depths of the wells ranged from approximately 14.83 to 23.40 feet below ground surface and the depths to water in each well ranged from approximately 10.25 to 21.39 feet below grade.

Well ID	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Depth to Water (ft)	15.57	21.39	10.25	16.81	17.18	19.29
Total Depth (ft)	19.20	23.40	14.83	19.82	20.07	19.81

The inconsistent depths to water observed during the Limited Site Investigation prevented developing a reliable groundwater flow direction map. As such, the temporary wells were not surveyed during the course of this investigation. In addition, as indicated in the table above, less than five feet of water was present in each of the wells. Based on the small amount of water in each well and slow recharge, only minimal well development was performed to allow for as much volume as possible for groundwater sampling.

Following sampling, each temporary well was abandoned by removing the well screen and casing and filling the borehole to grade with cement grout.

Groundwater Sampling

Groundwater samples were collected from the temporary wells on 11 March 2005 using small diameter, disposable polyethylene bailers. Prior to sampling, the depth to groundwater and total depth of each well were measured, as summarized in the table above, with an electronic water level indicator. As previously stated, well development and/or purging was not performed due to the small amount of water present in the wells and slow recharge. Therefore, water samples were generally turbid and contained sediment. In general, groundwater samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals; however, some of the wells contained insufficient volume for all of the analyses. The specific parameters analyzed for each of the groundwater samples is presented below.

- GSB-1, GSB-5 and GSB-7: VOCs, PAHs, PCBs and metals;
- GSB-3 and GSB-6: VOCs and PAHs; and
- GSB-9: VOCs only.

The groundwater samples were analyzed by Severn Trent.

Data Evaluation

The analytical data collected during the Limited Site Investigation activities were reviewed and checked by Delta for completeness and accuracy. The soil analytical data were compared to NYSDEC TAGM 4046 recommended soil cleanup objectives. Groundwater analytical data were compared to NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance values for groundwater. Data summary sheets are presented in Attachment 2.

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31 March 2005 Phil Bousquet, Esq. Delta Project No. 0502010P Page 4 of 5

RESULTS

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples (Table 1). Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards (Table 2).

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

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Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

Groundwater Flow

As previously indicated, an accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, groundwater is expected to flow to the west and/or northwest toward the river.

Delta appreciates the opportunity to present the findings of this Limited Soil Investigation. If you have any questions or comments concerning this submittal, feel free to contact the undersigned at (315) 445-0224 or by e-mail (mschumacher@deltaenv.com).

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

mal & Schmack

Mark J. Schumacher Project Manager

Attachments

31 March 2005 Phil Bousquet, Esq. Delta Project No. 0502010P Page 5 of 5

DRAFT. CONFIDENTIAL ATTORNEY-CLIENT COMMUNICATION

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Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

may & Schmack

Mark J. Schumacher Project Manager

Attachments

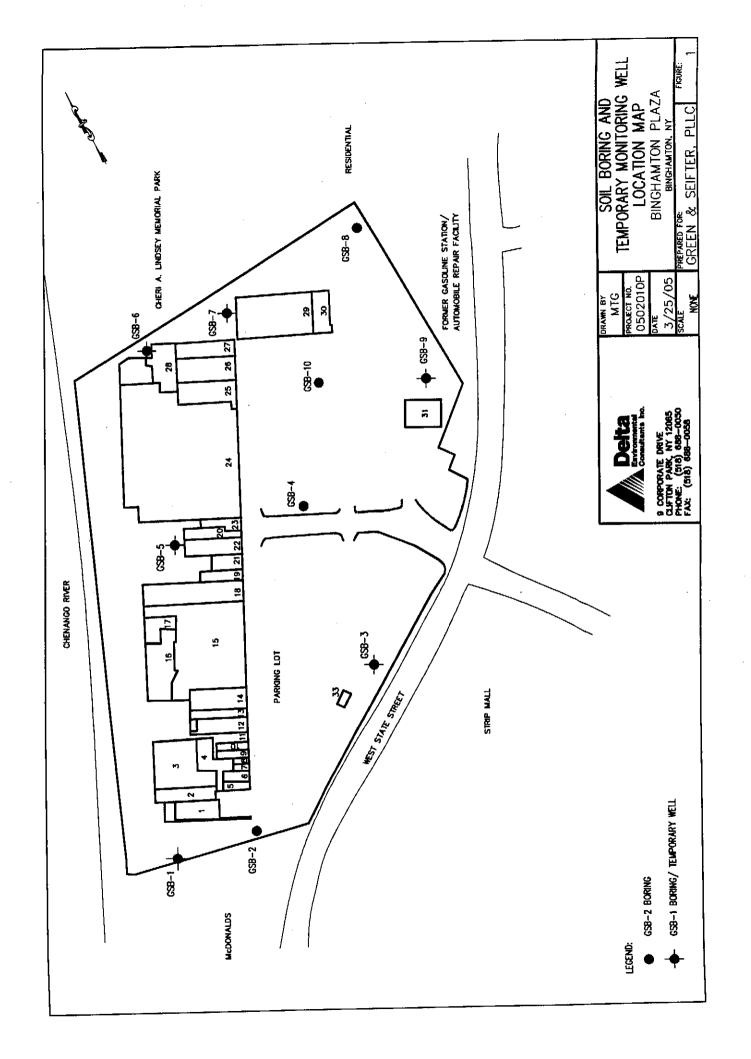


TABLE 1
Summary of Analytical Results - Soil Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

	TAGM 4046	SOIL BORINGS					
	Soil Cleanup	<u> </u>	so	DIL SAMP		TS	
	Objectives	GSB-1	GSB-3	GSB-6	GSB-7	GSB-9	GSB-10
PARAMETER	(ppb)	(12-16')	(16-20')	(4-8')	(12-16')	(4-81)	(16-20')
Volatile Organic Compounds (ppb)							
Acetone	200	210	57	220	180	28	200
Benzene	60	4	ND	2	ND	ND_	ND
2-Butanone	300	22	12	47	42	ND	40
Carbon Disulfide	2,700	ND	ND	7	11	ND_	2
Cyclohexane	NS	38	13	23	3	48	43
1,4-Dichlorobenzene	8,500	ND	4	ND	ND	ND	4
Ethylbenzene	5,500	3	5	2	ND	ND_	4
Isopropylbenzene	NS	15	ND	9	ND	ND	18
Methylcyclohexane	NS	4	ND	8	ND_	ND_	3
Methylene Chloride	100	7	ND	ND	11	ND	- 8
Toluene	1,500	3	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	3	18
Xylenes (total)	1,200	17	ND	54	ND	ND	100
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	50,000	2,000	ND	320	ND_	ND	ND
Acenaphthylene	41,000	1,800	ND	280	ND	ND	ND
Anthracene	50,000	4,100	ND	ND	ND	ND	2,300
Benzo(a)anthracene	224 or MDL	7,600	ND	460	460	350	3,000
Benzo(b)fluoranthene	1,100	12,000	ND	810	830	560	2,700
Benzo(k)fluoranthene	1,100	13,000	ND	910	940	630	ND
Benzo(a)pyrene	61 or MDL	3,800	ND	210	1,500	280	2,300
Chrysene	400	10,000	ND	680	570	360	2,600
Dibenzo(a,h)anthracene	14 or MDL	1,500	ND	ND	340	ND	ND
Fluoranthene	50,000	23,000	ND	1,500	300	890	8,500
Fluorene	50,000	5,100	ND	630	ND	ND	2,000
Indeno(1,2,3-cd)pyrene	3,200	1,800	ND	ND	300	ND	ND
2-Methylnaphthalene	36,400	5,400	ND	13,000	ND	690	ND
Naphthalene	13,000	3,900	ND	3,400	ND	140	ND
Phenanthrene	50,000	25,000	180	1,000	220	520	9,200
Pyrene	50,000	12,000	ND	1,200	280	530	4,800
PCBs Total (ppb)							
Aroclor 1242	10,000 (1)	ND	340	ND	ND	ND	ND
Aroclor 1254	10,000 (1)	ND	220	420	ND	3000	ND
Metals (ppm)							
Arsenic	7.5 or SB	5.1	7.3	76.2	4.6	7.9	5.0
Barium	300 or SB	148	332	304	57.1	529	140
Cadmium	1 or SB	ND	0.71	2.20	ND	2.0	ND
Chromium	10 or \$B	16.6	38.8	39.1	17.8	25.9	24.8
Lead	SB (2)	208	1200	863	98.9	1110	233
Mercury	0.1	0.30	0.23	3.50	0.30	0.34	0.34
Selenium	2 or SB	ND	ND	68.8	ND	ND	ND
Silver	SB	2.7	12.8	ND_	ND	28.5	10.6

Notes:

12,000 _____ Analyte detected at concentration in excess of NYSDEC TAGM 4046 recommended soil cleanup objective.

ND: Compound not detected: NA: Compound not analyzed; NS: No standard; MDL: Method Detection Limit; SB: Site Background

^{(1):} Cleanup objective for subsurface soils.

^{(2):} Background levels for lead vary widely, Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

TABLE 2

Summary of Analytical Results - Groundwater Samples VOCs, SVOCs, PCBs and Metals Binghamton Plaza - Limited Site Investigation

	NYSDEC Class GA	TEMPORARY MONITORING WELLS						
	Groundwater	- 0	ROUNDW	ATER SA	MPLE RE	SULTS (pp	b)	
	Standard/Guidance	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9	
PARAMETER	Value (ppb)							
Volatile Organic Compounds (ppb)								
Acetone	50	4.20	ND	ND	4.60	4.60	64	
Benzene	1	0.57	ND	0.45	7.90	0.80	ND	
2-Butanone	50	ND	ND	ND	2.90	ND	18	
Carbon Disulfide	NS	0.27	0.31	ND	1.70	1.40	ND	
Chlorobenzene	5	0.52	ND	ND	ND	9.70	ND	
Chloroform	7	ND	ND	ND	0.41	ND	ND	
Cyclohexane	NS	2.10	5.20	9.90	23	4.90	0.91	
1,3-Dichlorobenzene	3	ND	ND	ND	0.70	ND	ND	
1,4-Dichlorobenzene	3	0.32	ND	ND	0.72	2.30	ND	
cis-1,2-Dichloroethene	5	ND	ND	11	ND	ND	ND	
Ethylbenzene	5	ND	ND	ND	1.40	ND	ND	
2-Hexanone	50	2.0	ND	ND	ND	ND	ND	
Isopropyl benzene	5	1.20	ND	0.23	4.50	1.80	ND	
Methylcyclohexane	NS	0.62	ND	ND	ND	ND	ND	
Methylene Chloride	5	0.69	ND	ND	5.90	0.63	ND	
МТВЕ	10	0.82	ND	ND	ND	ND	ND	
Tetrachloroethene	5	ND	ND	8.60	ND	ND	ND	
Trichloroethene	5	ND	ND	5.50	NID	ND	ND	
Vinyl Chloride	2	ND	ND	4.0	ND	ND	ND	
Xylenes (total)	5	0.72	ND	ND	13	ND	ND	
Semi-Volatile Organic Compounds (ppb)								
Acenaphthene	20	ND	ND	3.0	5.0	ND	NA	
Benzo(a)anthracene	0.002	ND	ND	ND	3.0	ND	NA	
Benzo(b)fluoranthene	0.002	ND	ND	ND	4.0	ND	NA	
Chrysene	0.002	ND	ND	2.0	3.0	ND	NA	
Fluoranthene	50	ND	ND	5.0	8.0	ND	NA	
Fluorene	50	ND	ND	2.0	3.0	ND	NA	
2-Methylnaphthalene	NS	ND	ND	ND	7.0	2.0	NA	
Naphthalene	10	ND	ND	ND	16.0	ND	NA	
Phenanthrene	50	ND	ND	5.0	6.0	ND	NA	
Pyrene	50	ND	ND	3.0	5.0	ND	NA	
PCBs Total (ppb) (Aroclor 1254)	0.09	0.32	NA	ND	NA	ND	NA	
Metals (ppb)								
Arsenic	25	140	NA	ND	NA	100	NA	
Barium	1,000	3,600	NA	170	NA	1,700	NA	
Cadmium	5	15	NA	ND	NA	1.5	NA	
Chromium	50	210	NA	8.8	NA	190	NA	
Lead	25	4,000	NA	30	NA	1,500	NA	
Mercury	0.7	50	NA	ND	NA	17	NA	
Selenium	10	ND	NA	ND	NA	ND	NA	
Silver	50	88	NA	ND	NA	4.1	NA	
Notes:		- 50			-146		- 11	

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard

Analyte detected at concentration in excess of NYSDEC Class GA Groundwater Standard or Guidance Value.

ATTACHMENT 1 SOIL BORING LOGS

					Site Investigation	Sheet 1 of 1
	NT: Gre				^-	
	ING ME			2010P 000	SAMPLER BIT SIZE CORE CASING	
	ING RIC				Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	ERS: Su				INSPECTOR: SCOTT BRYANT	DITTE: 5-07-05
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER	1	READING		
	ŀ	6"				
		<u> </u>			SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.8	2.0	0.5-1.5' Sand (f-cs) and gravel (f), black, dry 1.5-3.8' Sand (f-cs) some gravel (f-cs) some silt, gray-brown,	staining
3.0					hard, dry	
4.0						
5.0						
6.0	2	NA	3.4	12.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with some fill (metal wire and glass fragments), dry to damp	Weak oily odor in fill material
7.0					guest ragmons, ary to damp	in im material
8.0	***************************************					
9.0						
10.0	3	NA	1.7	16.0	Same as above, less gravel with more fill - wood, slag, ash, etc.	Weak oily odor
11.0	ļ					in fill material
12.0						
13.0						
14.0	4	NA	3.2	33.0	Same as above - more fill (ash, wire, brick, wood, copper wire, tarry substance) mixed with sand and gravel, damp to moist,	Weak oily odor
15.0				1	brown to black	in fill material
16.0						
17.0						
18.0	5	NA	1.0	-	Same as above, black, saturated	Weak oily odor in fill material
19.0		}				iii iiii materiai
20.0					EOB @ 20'	

PROJ.	ECT: Bi	ngamtoi	ı Plaza	- Limited	Site Investigation	Sheet 1 of 1
	VT: Gree					
				2010P 000	······································	
	ING ME				SAMPLER BIT SIZE CORE CASING	DATE 2 00 05
	ING RIC				Macro Core 1-1/2" ID NA NA INSPECTOR: SCOTT BRYANT	DATE: 3-09-05
	ERS: Su	BLOWS			INSPECTOR, SCOTT BRIANT	
DEPTH IN FT.	NUMBER	PER	REC.	PID READING		
1	NOWBER	6"		READING		
	j				SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.2	0.0	0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt little clay, more silt and clay toward bottom, damp to moist, gray-brown	staining
3.0					shit and cray toward bottom, damp to moist, gray-brown	
4.0				 .		
5.0						
6.0	2	NA	1.2	0-1	Same as above, dry to damp	No odor or
7.0						staining
8.0						
9.0						
10.0	3	NA	2.4	3-4	Sand (f-cs) little silt little gravel (f-m) trace clay, finer with	No odor or
11.0					depth, gray-brown with some glass fragments, damp to moist	staining
12.0						
13.0						
14.0	4	NA	1.8		0-0.6' Same as above, damp to moist 0.6-1.8' Sand (f-cs) trace gravel (f-m) trace silt trace clay,	No odor or
15.0					gray brown, damp	staining
16.0		_				
17.0					0-0.5' Same as above, saturated	No odor or
18.0	5	NA	2.5	3-4	0.5-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick frags, slag, etc., black, saturated	staining
19.0					1.8-3.0' Silt some clay trace sand (f), olive-gray, wet	
20.0					EOB @ 20'	

PROJ	ECT: B	ingamto	n Plaza	a - Limited	Site Investigation	Sheet 1 of 2
	NT: Gre					
				2010P 00		
	JING MI				SAMPLER BIT SIZE CORE CASING	
	JING RIC				Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	LERS: Su				INSPECTOR: SCOTT BRYANT	
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER		READING		
		6*			SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.8	1.1	0.5-3.0' Sand (f-cs) some gravel (f-cs) little silt, gray-brown,	staining
3.0					hard, dry, some glass fragments 3.0-3.8' Sand (f-cs) trace gravel (f), black, fill with glass, wire, ash, dry, soft	
4.0						
5.0						
6.0	2	NA	0.7	3.0	Same as above, very soft, dry-damp	Weak oily odor
7.0						111 1111
8.0						
9.0						
10.0	3	NA	0.8	2.5	Same as above, very soft with newspaper and plastic in the fill, black, damp	Weak oily odor
11.0					ini, oleek, danip	in fill
12.0						
13.0						
14.0	4	NA	0.8	115.0	Same as above, very soft, damp to moist	Weak oily odor
15.0						in fill
16.0						
17.0						
18.0	5	NA	0.6	275.0	Same as above, moist	Weak oily odor in fill
19.0						111 1111
20.0						

Collent Core A Seller PLIC						BOKING NO.: GSD-3	Sheet 2 of 2
DELLIA PROJECT NO. 0502010P 0001	PROJ	ECT: E	ingamto	on Plaz	a - Limite	d Site Investigation	Sheet 2 of 2
DRILLING METHOD: Direct Push SAMPLER BIT SIZE CORE CASING	CLIEN	NT: Gr	een & S	eifter,	PLLC	201	
DRILLING RIG: Concord 2200							
DRILLERS: Subsurface Drilling Solms INSPECTOR; SCOTT BRYANT							DATE: 3-09-05
DEPTY NAME NAME NAME PER							B111E. 5 05 05
NET. MEMORES PER c NA 2.4 - Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated EOB @ 24' EOB @ 24' EOB @ 34' Soll DESCRIPTION REMARKS No odor or staining EOB @ 24' A c Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, staining EOB @ 24' 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.		_				INSTECTOR, SCOTT BRIANT	
21.0 22.0 6 NA 2.4 - Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated EOB @ 24' EOB @ 24' 33.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0				REC.			
SOIL DESCRIPTION REMARKS	IN F1.	NUMBER			READING		1
22.0 6 NA 2.4 - Sand (F-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated EOB @ 24' EOB @ 24' EOB @ 34'	l	}]		SOIL DESCRIPTION	REMARKS
22.0 6 NA 2.4 - Sand (F-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated EOB @ 24' EOB @ 24' EOB @ 34'							
22.0 6 NA 2.4 - Sand (F-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated EOB @ 24' EOB @ 24' EOB @ 34'	21.0						
23.0 Saturated Staining 24.0 EOB @ 24' 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0							
23.0 Saturated Staining 24.0 EOB @ 24' 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	22.0	6	NA	2.4	_	Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown.	No odor or
23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	··		* ***				
24.0 EOB @ 24' EOB @ 24' EOB @ 34' EOB @ 34' EOB @ 34' EOB @ 34' EOB @ 34' EOB @ 35.0 EOB @ 37.0 EOB @ 37.0 EOB @ 34' EOB @ 35' EOB @ 35	23.0					Buttifuted	Junion 5
EOB @ 24' 25.0 26.0 27.0 28.0 29.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	25.0						
EOB @ 24' 25.0 26.0 27.0 28.0 29.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0							
25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37	24.0					EOD @ 241	
26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37	ا م					EOB @ 24	
27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	25.0						
27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0							
28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	26.0						
28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	_						
29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	27.0						
29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	! !						•
30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0	28.0						
30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0							
31.0 32.0 33.0 34.0 35.0 36.0 37.0	29.0						
31.0 32.0 33.0 34.0 35.0 36.0 37.0			- 1	- 1			
31.0 32.0 33.0 34.0 35.0 36.0 37.0	30.0°						
32.0 33.0 34.0 35.0 36.0 37.0							
32.0 33.0 34.0 35.0 36.0 37.0	31.0	ļ	ļ				
33.0 34.0 35.0 36.0 37.0			ļ	į			
33.0 34.0 35.0 36.0 37.0	32.0						
34.0 35.0 36.0 37.0	52.0						
34.0 35.0 36.0 37.0	22 0	j	l	l			
35.0 36.0 37.0	ا 0.دد	- 1	1	J			
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36.0	4.0د		1				
36.0							
37.0	35.0	ļ]	J]
37.0		ļ		ļ			
	36.0	1					
	37.0	J	ļ	J			
380							
	38.0						

TEST BORING LOG

	PROJECT: Bingamton Plaza - Limited Site Investigation Sheet 1 of 1							
CLIE	VT: Gree	n & Sei	fter, P	LLC				
				2010P 000				
	ING ME				SAMPLER BIT SIZE CORE CASING	DATE: 3-09-05		
	ING RIG ERS: Sui				Macro Core 1-1/2" ID NA NA INSPECTOR: SCOTT BRYANT	DATE: 3-09-03		
DEPTH	SAMPLE	BLOWS	REC.	PID	Indi Ector, Scott Britain			
	NUMBER	PER	KEC.	READING				
	THE STATE OF THE S	6"						
					SOIL DESCRIPTION	REMARKS		
1.0								
1.0					0-1' Asphalt and road base gravel	No odor or		
2.0	1	NA	3.8	3.2	1-3.8' Sand (f-cs) some gravel little silt, gray-brown, dry to	staining		
	•	1111	3.0	5.5	damp, hard, coarse	Stammig		
3.0					*/ *** *, ******			
				i				
4.0								
5.0								
6.0	2	NA	3.4	1.0	Sand (f-cs) some gravel little silt little clay, gray-brown, wet to	No odor or		
0.0	-	11/21	3.4	1.0	saturated with fill material - paper, glass, brick, ash, etc., in	staining		
7.0					bottom half of the sample	Statiling		
8.0								
		- 1						
9.0								
10.0	3	NA	1.2	2.5	Same as show with warming to 1 GH			
10.0	,	ואה	1.2		Same as above with more paper and wood fill, saturated, refusal at 11.8'	No odor or		
11.0					refusal at 11.6	staining		
12.0					EOB @ 12'			
					= = = \(\tau \)			
13.0						 		
 ,,,				l		 		
14.0				ļ		!		
15.0						1 1		
15.0								
16.0								
10.0	1] [
17.0] 		
		ļ		ł		1		
18.0		1	ļ					
	1		- 1			j		
19.0		Ì		j		 		
	}	ļ]		 		
20.0]				

TEST BORING LOG

					TEST BORING LOG BORING NO.: GSB-5	
PROJ	ECT: Bi	ngamto	n Plaz	a - Limited	Site Investigation	Sheet 1 of 1
CLIE	NT: Gre	en & Se	eifter, I	LLC		
				2010P 000		
	LING ME				SAMPLER BIT SIZE CORE CASING Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
	LERS: Su				INSPECTOR: SCOTT BRYANT	B.112.5 10 03
DEPTH	SAMPLE	BLOWS		PID		
IN FT.	NUMBER	PER		READING		
		6*			SOIL DESCRIPTION	REMARKS
\vdash	\vdash			1		
1.0						
. .					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.2	1-2	0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt, gray-brown,	staining
3.0					coarse, dry to damp toward bottom	
J~						
4.0						
5.0						
6.0	2	NA	2.4	1.5	0-2.0' Same as above, damp to moist	No odonou
0.0	-	11/1	2.7	1.5	2.0-2.4' Sand (f-cs) little gravel (f), black, wet fill material	No odor or staining
7.0					with ash, tile, brick, glass, etc.	staming
8.0						
9.0						
7.0			1			
10.0	3	NA	0.4	2.0	Same as above, saturated, black	Very weak
					,,	oily odor
11.0						
12.0						
12.0						
13.0						
14.0	4	NA	0.4	-	Same as above	No odor or
15.0						staining
15.0						
16.0					EOB @ 15'	
					$oldsymbol{arphi}$	
17.0						
18.0						
10.0						
19.0	}					1
	ļ	-				

PROJ	ECT: Bi	ngamton	Plaza	- Limited	Site Investigation	Sheet 1 of 1
CLIEN	VT: Gree	n & Sei	fter, P	LLC		
				2010P 000		
	ING ME				SAMPLER BIT SIZE CORE CASING	DATE: 2 10.05
	ING RIG				Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
-	ERS: Sul			g Sol'ns	INSPECTOR: SCOTT BRYANT	<u> </u>
	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER		READING		
		6*			SOIL DESCRIPTION	REMARKS
1.0						
2.0	1	NA	3.2	0.5	Sand (f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard	No odor or staining
3.0						3
4.0						
5.0						
6.0	2	NA	1.5	40.0	Sand (f-cs) little gravel (f-m) little silt, brown to black at	Oily odor in
7.0					bottom, dry to damp fill with organics toward bottom	bottom 0.4'
8.0						
9.0	.			;		
10.0	3	NA	0.4	5.0	Sand (f-cs) some silt trace gravel (f-m), dark gray, moist to	Weak oily
11.0					wet	odor
12.0						
13.0		ļ				
14.0	4	NA	1.8		0-0.9' Same as above, gray, saturated 0.9-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick, fire	Weak oily odor
15.0					brick, glass, wood, etc., damp to moist	Odol
16.0						
17.0					0-0.8' Same as above with newspaper	Weak oily
18.0	5	NA	3.0	8.0	0.8-3.0' Sand (f-m) and silt little clay, dark gray, wet, soft some newspaper and wood fill at top	odor
19.0				ļ	some nonspaper and mood thi at top	
20.0					EOB @ 20'	

PROJ	ECT: Bi	ngamtor	ı Plaza	- Limited	Site Investigation	Sheet 1 of 1			
CLIE	CLIENT: Green & Seifter, PLLC DELTA PROJECT NO: 0502010P 0001								
	ING ME				SAMPLER BIT SIZE CORE CASING	DATE: 3-10-05			
1—	ING RIC ERS: Su				Macro Core 1-1/2" ID NA NA INSPECTOR: SCOTT BRYANT	DATE: 3-10-03			
	SAMPLE	BLOWS	REC.	PID	INSPECTOR, SCOTT BRIANT				
IN FT.	NUMBER	PER	REC.	READING		Į			
2.11.		6"		i i i i i i i i i i i i i i i i i i i	·				
					SOIL DESCRIPTION	REMARKS			
1.0									
2.0	1	NA	3.8	0.5	Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry to damp, compact, coarse fill	No odor or staining			
3.0						g			
4.0									
5.0									
6.0	2	NA	1.9	1.0	Sand (f-cs) some gravel (f-cs) little silt trace clay, fines	No odor or			
7.0					toward bottom, damp to moist, gray-brown grading to dark brown, minor fill material near bottom - glass and brick	staining			
8.0									
9.0									
10.0	3	NA	1.6		0-0.6' Same as above 0.6-1.6' Sand (f-cs) little silt little gravel (f-m), damp to wet,	Weak oily odor			
11.0					black with fill - ash, glass, brick, metal, plastic, wood, etc.				
12.0									
13.0									
14.0	4	NA	1.0	5.0	Same as above, dark brown with more metal	Weak oily odor			
15.0									
16.0			_						
17.0									
18.0	5	NA	0.8	-	Same as above, saturated, refusal at 17'	Weak oily odor			
19.0					EOB @ 17'				
20.0					202 (4) 17				

PROJ	ECT: Bi	ngamtor	ı Plaza	- Limited	Site Investigation	Sheet 1 of 1
	VT: Gree					
				2010P 000		
	ING ME				SAMPLER BIT SIZE CORE CASING Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	ING RIG				Macro Core 1-1/2" ID NA NA INSPECTOR: SCOTT BRYANT	DATE: 3-09-03
	ERS: Sul				INSPECTOR, SCOTT BRIANT	
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER	REC.	PID READING		-
IN FA.	NOWBER	6"		i i i i i i i i i i i i i i i i i i i		
L	l				SOIL DESCRIPTION	REMARKS
1.0						
2.0	1	NA	3.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with depth, dry to damp with some small brick fragments	No odor or staining
3.0					depth, dry to damp with some small orien magnitudes	Summing .
4.0				·		
5.0		,				
6.0	2	NA	2.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown, re-worked soil	No odor or
7.0					with minor fill material - brick frags and wood near bottom, dry to damp	staining
8.0						
9.0						
10.0	3	NA	0.0	-	Refusal at 8.2' - no recovery	
11.0					EOB @ 8.2'	
12.0		Ì				
13.0	}					
14.0						
15.0						
16.0		ĺ				
17.0						
18.0						
19.0	ļ			į		
20.0						

PROJ	ECT: Bi	ngamto	n Plaza	- Limited	Site Investigation	Sheet 1 of 1
	NT: Gre					
				2010P 000		
	ING ME				SAMPLER BIT SIZE CORE CASING	<u> </u>
	ING RIC				Macro Core 1-1/2" ID NA NA	DATE: 3-09-05
	ERS: Su		Drillin	g Sol'ns	INSPECTOR: SCOTT BRYANT	
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER	1	READING		
i	1	6*		l	CON PACCEMENT	D774 D770
\vdash			<u> </u>		SOIL DESCRIPTION	REMARKS
1.0		 			0-0.8' Asphalt and road base gravel	No odor or
2.0	1	NA	3.0	6.0	0.8-2.5' Sand (f-cs) some gravel (f-m) little silt, gray-brown,	staining
3.0					dry, fill soil 2.5-3.0' Sand (f-cs) little gravel (f), black, dry to damp, with	Weak oily odor
					fill material - ash, metal, glass, slag, etc.	
4.0						
5.0						
]						
6.0	2	NA	1.2	3.0	Sand (f-cs) little gravel (f-m) trace silt, black, wet with fill -	Weak oily odor
					ash, glass, metal, wire, wood, etc., soft	
7.0						
8.0	·				·	
9.0						
10.0	3	NA	1.0	2.0	Same as above, more fill, black, wet, very soft	Weak oily odor
11.0						
12.0			İ			
12.0						
13.0						
14.0	4	NA	1.2	1.5	Same as above, wet	Weak oily odor
150						would only oddi
15.0						ŀ
16.0						
17.0						
17.0						
18.0	5	NA	3.8	1.0	Sand (f-m) and silt little clay, wet, soft, dark gray grading to	Weak oily odor
		1			olive-gray and softer	Time only odo!
19.0	ŀ	ļ		1		i l
	-		-	}] \
20.0		-	-		EOB @ 20'	

PROJ	ECT: Bi	ngamto	n Plaza	- Limited	Site Investigation	Sheet 1 of 2
	NT: Gre				- Site III Gottgator	
				2010P 00	01	
DRILI	ING ME	THOD:	Direct	Push	SAMPLER BIT SIZE CORE CASING	
DRILI	ING RIC	: Conco	rd 9200)	Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
DRILI	ERS: Su	bsurface	Drillin	g Sol'ns	INSPECTOR: SCOTT BRYANT	
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER	PER		READING		
		6*]		
<u> </u>	<u> </u>				SOIL DESCRIPTION	REMARKS
1.0					0-0.5' Asphalt and road base gravel	No odor or
2.0	1	NA	3.9	0.5	Sand)f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard fill soil	staining
3.0						
4.0						
5.0					0.1.21 Sama as shows	
6.0	2	NA	2.8	5.0	0-1.3' Same as above 1.3-2.8' Sand (f-cs) some gravel (f-m) trace silt, damp, black	No odor or
7.0					with fill - glass, metal, brick frags, ash, etc.	staining
8.0						
9.0						
10.0	3	NA	0.5	8.0	Same as above, damp	No odor or
11.0					i.	staining
12.0						
13.0						
14.0	4	NA	0.3	10.0	Same as above	No odor or
15.0						staining
16.0						
17.0						
18.0	5	NA	0.9		Same as above, moist to wet with dark-gray sand and silt	No odor or
19.0					at bottom of the tube	staining
20.0				l l		

					BORING NO.: GSB-10	
PROJ	ECT: B	ingamto	n Plaz	za - Limite	d Site Investigation	Sheet 2 of 2
CLIE	VT: Gre	en & S	eifter,	PLLC		
DELT	A PRO	JECT N	IO: 05	02010P 00		
		ETHOD:			SAMPLER BIT SIZE CORE CASING	TD 4 000 0 10 05
		G: Conc			Macro Core 1-1/2" ID NA NA	DATE: 3-10-05
DRILL	ERS: S		e Drilli	ng Sol'ns	INSPECTOR: SCOTT BRYANT	<u> </u>
DEPTH	SAMPLE	BLOWS	REC.	PID		
IN FT.	NUMBER			READING		
1		6*			SOIL DESCRIPTION	REMARKS
					SOIL DESCRIPTION	TEDITITIES
21.0						
22.0	6	NA	0.8	-	Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated	No odor or staining
23.0						J
24.0					EOB @ 24'	
25.0						
26.0						
27.0						
28.0		İ				
29.0						
30.0						
31.0		:				
32.0						
33.0						
34.0						
35.0						
36.0				•		
37.0						
38.0						

ATTACHMENT 2 LABORATORY ANALYTICAL REPORTS



STL Buffalo 10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-2260

SIL Project#: NY4A9341

Site Name: Delta Environmental Consultants, Inc.

Task: Binghamton Project

Mark Schumacher Delta Environmental 104 Jamesville Rd. Syracuse, NY 13214

STL Buffalo

Brian J()Fischer Project Manager

03/24/2005

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STL Buffalo Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	· SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA .	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	. 9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	. 252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

			Sampi	ED	RECEIVE	I D
LAB SAMPLE II	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A5226011	GSB-1	WATER			03/12/2005	
A5226002	GSB-1 (12-16)	SOIL			03/12/2005	
A5226006	GSB-10 (16~20)	SOIL	03/10/2005	17:00	03/12/2005	12:15
A5226012	GSB-3	WATER			03/12/2005	
A5226005	GSB-3 (16-20)	SOIL	03/09/2005	14:00	03/12/2005	12:15
A5226010	GSB-5	WATER	03/11/2005	09:35	03/12/2005	12:15
A5226009	GSB-6	WATER	03/11/2005	09:15	03/12/2005	12:15
A5226001	GSB-6 (4-8)	SOIL	03/10/2005	08:20	03/12/2005	12:15
A5226008	GSB-7	WATER	03/11/2005	08:50	03/12/2005	12:15
A5226004	GSB-7 (12-16)	SOIL	03/10/2005	15:00	03/12/2005	12:15
A5226007	GSB-9	WATER	03/11/2005	08:25	03/12/2005	12:15
A5226003	GSB-9 (4-8)	SOIL	03/09/2005	16:10	03/12/2005	12:15
A5226013	TRIP BLANK	WATER	03/11/2005		03/12/2005	

METHODS SUMMARY

Job#: A05-2260

STL Project#: <u>NY4A9341</u> Site Name: <u>Delta Environmental Consultants</u>, <u>Inc</u>.

PARAMETER	ANALYTICAL METHOD
DELITA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS	SW8463 8260
DELITA-METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
Delta - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

SW8463

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: <u>A05-2260</u>

STL Project#: NY4A9341

Site Name: Delta Environmental Consultants, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-2260

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C No tests were listed on chain of custody for sample GSB-3; tests were assigned according to bottle labels.

GC/MS Volatile Data

The analyte Bromomethane was detected in the Method Blanks A5B0352902 (VBLK82) and A5B0358702 (VBLK84) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The samples GSB-1 (12-16) RI, GSB-9 (4-8) RI, and GSB-7 (12-16) RI were subjected to gel permeation chromatrography cleanup in order to obtain client requested reporting limits.

The spike recoveries for Pyrene were below the laboratory quality control limits in the Matrix Spike GSB-6 (4-8). Since the Matrix Spike Blank A5B0334301 recoveries were compliant, no corrective action was required.

Sample GSB-1 (12-16), 8270 soil, had an adjusted final volume during extraction due to extract matrix and viscosity.

GC Extractable Data

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GSB-7 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8082, many samples required dilution prior to analysis due to the heavy matrix present or high concentration of target analytes. The surrogates are diluted out of all sample extracts with a dilution factor of 10% or greater.

<u>Metals Data</u>

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead(MS) and above quality control limits for Lead(MSD). The sample result is more than four times greater than the spike added. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LCS (A5B0334601) is acceptable.

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results above quality control limits for Chromium(SD), and below quality control limits for Arsenic, Cadmium, Chromium(MS), Selenium, and Silver. Sample matrix is suspect. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Arsenic, Chromium, and Selenium. However, the LCS (A5B0334601) was acceptable.

The recovery of sample GSB-7 Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead. The sample result is more than four times greater than the spike added. The RPD of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LFB (A5B0334701) is acceptable.

The recovery of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Cadmium, Chromium, Mercury and Selenium. Sample matrix is suspect. However, the LFB's (A5B0334701 and A5B0339201) were acceptable.

The value obtained for Mercury on sample GSB-7 was confirmed via reanalysis. Only the result from the original analysis is provided in this data package. The initial overrange value obtained for sample GSB-1 was confirmed by the dilution of that sample.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer	
Project Manager	

Date

Dilution Log w/Code Information For Job A05-2260

8/89

Page: 1 Rept: AN1266R

Parameter (Inorganic)/Method (Organic) Dilution Code Lab Sample ID Client Sample ID 10.00 008 A5226001 Mercury - Total GSB-6 (4-8) 5.00 008 8270 GSB-6 (4-8) DL A5226001DL 10.00 008 Mercury - Total 6SB-6 (4-8) A5226001MS 10.00 008 Mercury - Total GSB-6 (4-8) A5226001SD 10.00 012 GSB-1 (12-16) A5226002 8270 5.00 008 GSB-1 (12-16) RI A5Z26Q02RI 8270 20.00 008 GSB-9 (4-8) A5226003 8082 10.00 012 8270 GSB-9 (4-8) A5226003 10.00 012 GSB-7 (12-16) A5226004 8270 10.00 008 GSB-10 (16-20) A5226006 8270 GSB-7 A5226008MS Mercury - Total 5.00 008 5.00 008 GSB-7 A5226008SD Mercury - Total GSB-1 A5226011 Mercury - Total 10.00 008

Dilution Code Definition:

002 - sample matrix effects

003 - excessive feaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	688-10 (16-20) A05-2260 03/10/2005	A5226006	6SB-3 (16-20) A05-2260 03/09/2005	A5226005	GSB-6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	30	200	30	57	30	220	28
Benzene	UG/KG	4 J	6	ND	6	ND	6	2 J	6
Promodich Loromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
romoform	UG/KG	ND	6	ND	6	ND	6	ND	6
romome thane	ug/kg	ND	6	ND	6	ND ND	6	ND	6
-Butanone	ue/ke	22 J	30	40	30	12 J	30	47	28
arbon Disulfide	UG/KG	ND	6	ŽJ	6	ND ND	6	7	6
arbon Tetrachloride	υσ/κσ	ND	6	l ND -	6	ND.	6	ND	6
hlorobenzene	υσ/κσ	ND	6	ND ND	6	ND	6	ND	6
hloroethane	UG/KG	ND	6	ND	6	ND ND	6	ND	6
Chloroform .	UG/KG	ND	6	ND	. 6	ND	6	ND	6
hloromethane	UG/KG	ND	6	ND ·	6	ND	6	ND	6
Cyclohexane	UG/KG	38	6	43	6	1 "13	6	23	i 6
,2-Dibromoethane	UG/KG	ND	6	ND ND	6	ND ND	6	NO	6
bromochloromethane	ug/kg	ND	6	ND	6	ND	6	ND	6
,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND ND	6	ND	ě	ND	هٔ ا
1,2-Dichlorobenzene	UG/KG	ND	6	ND ND	6	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	6	l ND	6	ND	6	ND	1 6
1.4-Dichlorobenzene	UG/KG	ND	6	"4 J	6	"4 J	6	. ND] 6
Dichlorodifluoromethane	UG/KG	ND	6	ND V	6	ND TO	6	ND	6
1,1-Dichloroethane	ue/ke	ND	6	ND ND	6	ND	6	ND	6
1,2-Dichloroethane	06/K6	ND	6	ND	6	ND	- 6	ND	6
1,1-Dichloroethene	UG/KG	. ND	6	l ND	6	ND ND	6	ND ND	١
cis-1,2-Dichloroethene	UG/KG	ND	6	ND ND	6	ND	ľ	ND	1 6
trans-1,2-Dichloroethene	UG/KG	ND .	6	ND	6	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND .	6	ND	l °	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	6	ND ND	6	I ND	6	ND	1 8
Ethylbenzene	UG/KG	3 J	6	4.	6	1	6		1 8
2-Hexanone	UG/KG	ND L	30		30	ND ND	30	ND ND	28
z-nexanone Isopropylbenzene	UG/KG	15	6	ND 40		ND ND	6	9	1 6
	UG/KG			18	6		6	. ND	2
Methyl acetate	UG/KG	ND , .	6	ND	6	ND		8	1 7
Methylcyclohexane	UG/KG	4 J 7	6	3 1	6	ND	6	ND ND	1 8
Methylene chloride		=	6	8	6	ND	_	•	
4-Methyl-2-pentanone	UG/KG	ND	30	ND	30	ND	30	ND ND	28
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	ND	6	ND ND	
Styrene	UG/KG	ND	6	ND	6	ND	6	ND	1 6
1,1,2,2-Tetrachloroethane	ne\ke	ND	6	ND D	6	ND	6	ND	
Tetrachloroethene	∪e/ke	ND	6	ND	6	ND	6	ND	1
Toluene	UG/KG	3 J	6	ND	6	ND	6	ND	·
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	ļ
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND ND	6	ND	
1,1,2-Trichlorgethane	UG/KG	ND	6	l ND	6	ND ND	6	NĐ	1

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	6SB-10 (16-20 A05-2260 03/10/2005) A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005	6SB-6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND 17 J	6 6 6 12 18	ND ND ND 18 100	6 6 6 12 18	ND ND ND ND	6 6 6 12 18	ND ND ND ND	6 6 6 11 17
:hlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 roluene-D8 D-Bromofluorobenzene 1,2-Dichloroethane~D4	x x x x x	120 113 105 96 92 88	50-200 50-200 50-200 71-125 68-124 61-136	85 84 87 92 88 90	50-200 50-200 50-200 71-125 68-124 61-136	79 81 69 94 83 90	50-200 50-200 50-200 71-125 68-124 61-136	79 80 87 101 95 83	50-200 50-200 50-200 71-125 68-124 61-136

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Job No Lab ID Sample Date		GSB-7 (12-16) AO5-2260 O3/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
cetone	UG/K6	180	· 29	28 J	30	NA NA	-	NA	
enzene	UG/KG	ND	6.	ND	6	NA NA		NA	
romodichloromethane	UG/KG	ND	6	ND	6	NA		NA	
romoform	UG/KG	ND	6	ND	6	NA	[NA	
romomethane	ug/kg	ND	. 6	ND	6	NA		NA NA	
-Butanone	ug/kg	42	29	ND	30	. NA	İ	NA	İ
arbon Disulfide	UG/KG	1 J	6	ND ·	6	NA		NA NA	
arbon Tetrachloride	UG/KG	ND	6	ND	6	NA.	ļ	NA.	
hlorobenzene	UG/KG	ND	6	ND	6	NA NA	1	NA	
thloroethane	UG/KG	ND	6	ND	6	NA NA	1	NA NA	-
:hloroform	UG/KG	ND	. 6	ND	6	NA NA		NA NA	
hloromethane	UG/KG	ND	6	ND	6	NA NA		NA NA	
Cyclohexane	UG/KG	3 J	6	48	6	NA NA	1	NA NA	ţ
.yctonexame 1,2-Dibromoethane	UG/KG	ND	6	ND	6	1		NA NA	
ojbromochloromethane	UG/KG	ND ND	6	ND ND	6	NA NA		NA NA	j
1,2-Dibromo~3-chloropropane	UG/KG	ND ND	6	ND	6			NA NA	}
	UG/KG	ND ND	6		_	NA NA	j	NA NA	1
1,2-Dichlorobenzene 1,3-Dichlorobenzene	UG/KG	ND	6	ND ND	6	NA NA		NA NA	-
	UG/KG	ND ND	6		6	NA WA		NA NA	1
1,4-Dichlorobenzene	UG/KG	ND	6	ND ND	6	NA NA	1	NA NA	
Dichlorodifluoromethane	1		-			NA	1		
1,1-Dichloroethane	UG/KG	ND	6	ND	6	NA NA		NA.	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	1
1,1-Dichloroethene	UG/KG	ND	6	ND	6	NA NA		NA]
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA NA		NA.	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	NA NA	}	NA.	
cis-1,3-Dichloropropene	ug/Kg	ND	6	ND	6	NA NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA NA	1	NA NA	1
Ethylbenzene	UG/KG	ND	6	ND	6	NA NA		NA NA	
2-Hexanone	UG/KG	ND	29	ND ·	30	NA NA		NA NA	
1sopropylbenzene	UG/KG	ND	6	ND	6	NA NA	1	NA NA	1
Methyl acetate	UG/KG	ND	6	ND	6	NA NA		NA.	i
Methylcyclohexane	ug/kg	ND	6	ND	6	NA NA	1	NA NA	1
Methylene chloride	UG/KG	11	6	ND	6	NA NA		NA NA	ļ
4-Methyl-2-pentanone	UG/KG	ND	29	ND	30	NA NA	1	NA NA	1
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	NA NA	1	NA NA	1
Styrene	ug/kg	ND	6	ND	6	NA NA		NA.	1
1,1,2,2-Tetrachloroethane	UG/KG	ND	. 6	ND	6	NA NA		NA NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	NA NA		NA NA	1
Toluene	UG/KG	ND	6	ND	6	NA NA		NA NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND ND	6	NA NA		NA NA	
1,Z,4-interopenzene	UG/KG	ND ND	6	ND	6	NA NA		NA NA	
1,1,1-Trichloroethane 1,1,2-Trichloroethane	UG/KG	ם סא	6	ND	6	NA NA	1	NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		6SB-7 (12-16) A05-2260 03/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Trichloroethene Vinyl chloride Total Xylenes	U6/K6 U6/K6 U6/K6 U6/K6 U6/K6	ND ND ND ND ND	6 6 6 12 17	ND ND 3 J ND	6 6 6 12 18	NA NA NA NA		NA NA NA NA	
Is/surrogate(s) Chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	x x x x x	109 109 99 96 88 86	50-200 50-200 50-200 71-125 68-124 61-136	110 108 97 99 88 85	50-200 50-200 50-200 71-125 68-124 61-136	NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: ANO326

Client ID GSB-1 6SB-3 GSB-6 GS8-5 A05-2260 Job No Lab ID A5226011 A05-2260 A5226012 A05-2260 A5226010 A05~2260 A5226009 03/11/2005 03/11/2005 03/11/2005 Sample Date 03/11/2005 Sample Reporting Sample Reporting Sample Report ing Reporting Sample Analyte Units Value Limit Value Limit Value Limit Value Limit U6/L Acetone 4.2 J 5.0 ND 5.0 5.0 4.6 J 5.0 ND UG/L 0.57 J 0.45 J 7.9 Benzene 1.0 ND 1.0 1.0 1.0 UG/L Bromodichloromethane 1.0 ND ND ND 1.0 ND 1.0 1.0 ue/L NĐ 1.0 ND Bromoform ND 1.0 ND 1.0 1.0 UG/L ND Bromomethane 1.0 NĐ 1.0 ND 1.0 ND 1.0 2-Butanone UG/L ND 5.0 2.9 J 5.0 ND 5.0 ND 5.0 Carbon Disulfide UG/L 0.27 J 1.0 1.7 1.0 1.0 0.31 J 1.0 ND UG/L Carbon Tetrachloride ND 1.0 ND 1.0 ND 1.0 ND 1.0 chlorobenzene UG/L $0.52 \, J$ 1.0 1.0 ND 1.0 ND 1.0 ND Chloroethane UG/L ND 1.0 NĐ 1.0 1.0 ND 1.0 ND Chloroform UG/L ND 1.0 ND 1.0 ND 1.0 0.41 J 1.0 Chloromethane UG/L ND 1.0 1.0 ND 1.0 ND 1.0 NĐ UG/L 23 Cyclohexane 2.1 1.0 1.0 1.0 5.2 1.0 9.9 1,2-Dibromoethane UG/L ND 1.0 1.0 ND 1.0 ND 1.0 ND UG/L ND pibromoch Lorome thane 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L ND 1,2-Dibromo-3-chloropropane 1.0 ND 1.0 ND 1.0 ND 1.0 1.2-Dichlorobenzene UG/L ND 1.0 1.0 ND 1.0 ND 1.0 ND UG/L 1.3-Dichlorobenzene ND 1.0 0.70 J 1.0 ND 1.0 ND 1.0 1.4-Dichlorobenzene UG/L $0.32 \, J$ 1.0 1.0 0.72 J 1.0 ND 1.0 ND pichlorodifluoromethane UG/L ND 1.0 1.0 ND 1.0 ND 1.0 ND UG/L ND 1,1-Dichloroethane 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L 1,2-Dichloroethane ND 1.0 1.0 NĐ 1.0 ND 1.0 ND UG/L 1.1-Dichloroethene ND 1.0 1.0 ND 1.0 ND 1.0 NĐ cis-1,2-Dichloroethene UG/L ND 1.0 ND 1.0 11 1.0 ND 1.0 UG/L ND ND 1.0 trans-1,2-Dichloroethene 1.0 ND 1.0 ND 1.0 1,2-Dichloropropane UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 UG/L cis-1,3-Dichloropropene ND 1.0 1.0 ND 1.0 1.0 ND ND UG/L ND 1.0 trans-1,3-Dichloropropene ND 1.0 ND 1.0 ND 1.0 UG/L ND 1.0 1_0 1.4 1.0 Ethylbenzene 1.0 ND ND 5.0 UG/L 2.0 J 5.0 5.0 ND 2-Hexanone ND 5.0 ND 4.5 Isopropylbenzene UG/L 1.2 1.0 ND 1.0 0.23 J 1.0 1.0 UG/L 1.0 ND 1.0 Methyl acetate ND 1.0 ND 1.0 ND UG/L 0.62 J 1.0 ND 1.0 1.0 Methylcyclohexane ND 1.0 ND 5.9 Methylene chloride U6/L 0.69 J 1.0 ND 1.0 ND 1.0 1.0 U6/L 5.0 ND 5.0 ND 5.0 5.0 ND 4-Methyl-2-pentanone ND Methyl-t-Butyl Ether (MTBE) UG/L 0.82 J 1.0 ND 1.0 1.0 ND ND 1.0 UG/L ND 1.0 ND 1.0 ND 1.0 ND 1.0 Styrene ND 1.0 1.0 1,1,2,2-Tetrachloroethane UG/L ND 1.0 1.0 ND ND UG/L 8.6 1.0 ND 1.0 Tetrachloroethene ND 1.0 ND 1.0 15/89 1.0 ND 1.0 UG/L ND 1.0 1.0 ND Toluene ND ND 1.0 1,2,4-Trichlorobenzene UG/L ND 1.0 1.0 ND 1.0 ND ND 1.0 1.0 1,1,1-Trichloroethane UG/L ND 1.0 1.0 ND ND 1.0 ND 1.0 1,1,2-Trichloroethane UG/L ND 1.0 ND 1.0 ND

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		6\$B-1 A05-2260 03/11/2005	A5226011	GSB-3 A05-2260 G3/11/20G5	A5226012	68B-5 A05-2260 03/11/2005	A5226010	GSB-6 A05-2260 03/11/2005	A5226009
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L	ND ND ND ND 0.72 J	1.0 1.0 1.0 1.0 3.0	DN DN DN DN GN	1.0 1.0 1.0 1.0 3.0	ND ND 5.5 4.0 ND	1.0 1.0 1.0 1.0 3.0	ND ND ND ND	1.0 1.0 1.0 1.0 3.0
chlorobenzene-D5 1,4-Difluorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	x x x x x x	88 88 91 99 94 104	50-200 50-200 50-200 76-116 73-117 72-143	89 89 88 99 94 105	50-200 50-200 50-200 76-116 73-117 72-143	90 91 89 99 96 103	50-200 50-200 50-200 76-116 73-117 72-143	89 91 92 100 96 101	50-200 50-200 50-200 76-116 73-117 72-143

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		GSB-7 A05-2260 03/11/2005	A5226008	GSB-9 A05-2260 03/11/2005	A5226007				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.6 J	5.0	64	5.0	NA		NA NA	
Benzene	UG/L	0.80 J	1.0	ND	1.0	NA		NA	
romodichloromethane	UG/L	ND	1.0	ND ND	1.0	NA		NA.	
romoform	UG/L	ND	1.0	ND	1.0	NA	J .	NA NA	}
romomethane	UG/L	NĐ	1.0	ND	1.0	NA.		NA NA	ļ
-Butanone	UG/L	ND	5.0	18	5.0	NA NA		NA NA	
arbon Disulfide	UG/L	1.4	1.0	ND		NA NA		NA NA	
arbon Tetrachloride	UG/L	ND	1.0		1.0				
htorobenzene	UG/L	9.7	1.0	ND NO	1.0	NA NA		NA	,
hloroethane	UG/L	P. (ND	1.0	NA		NA MA	
			1.0	ND	1.0	NA		NA	
hloroform	UG/L	ND	1.0	ND	1.0	NA		NA NA	
hloromethane	UG/L	ND	1.0	ND	1.0	NA	į	NA NA	l
yc lohexane	UG/L	4.9	1.0	0.91 J	1.0	NA		NA.	ł
,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA NA	l
ibromochloromethane	UG/L	ND	1.0	ND	1.0	NA	1	NA NA	
,2-Dibromo-3-chloropropane	ne\r	ND	1.0	ND	1.0	NA		NA NA	
,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA	1	NA NA	
,3-Dichlorobenzene	ne\r	ND	1.0	ND	1.0	NA	İ	NA NA	Ì
,4-Dichlorobenzene	Ue/∟	2.3	1.0	ND	1.0	NA		NA NA	1
ichlorodifluoromethane	ue/r	ND	1.0	ND	1.0	NA	į.	NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	l 1.0 l	NA	1	NA NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
is-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA	1	NA NA	1
rans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA NA		NA.	1
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA.		NA	
is-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA.	1	NA.	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA.		NA.	
thylbenzene	UG/L	ND	1.0	ND	1.0	NA.		NA	
?-Hexanone	UG/L	ND	5.0	ND	5.0	NA NA		NA	i
Isopropylbenzene	UG/L	1.8	1.0	ND	1.0	NA AN	1	NA NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA NA		NA NA	
Methylcyclohexane	UG/L	ND	1.0	ND .	1.0	NA NA		NA	1
Methylene chloride	UG/L	0.63 J	1.0	ND			1	NA NA	ł
	UG/L	0.85 J	5.0	i i	1.0	NA NA		NA NA	İ
4-Methyl-2-pentanone	UG/L		1.0	ND ND	5.0	NA	1	NA NA	1
Methyl-t-Butyl Ether (MTBE)		ND		ND .	1.0	NA			
Styrene	UG/L	ND	1.0	. ND	1.0	NA		NA NA	1
1,1,2,2-Tetrachloroethane	U6/L	ND	1.0	ND	1.0	NA		NA NA	1
Tetrachloroethene	U6/L	ND	1.0	ND	1.0	NA		NA	1
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA NA	1
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA NA	
1,1,1-Trichloroethane	UG/L	NĐ	1.0	ND	1.0	NA.		NA NA	
1,1,2-Trichloroethane	UG/L	NO	1.0	מא	1.0	NA	ļ	NA NA	j

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Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		6SB-7 A05-2260 03/11/2005	A5226008	GSB-9 A05-2260 03/11/2005	A5226007				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluom nrichlorofluoromethane rrichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L UG/L	ND ND ND ND ND	1.0 1.0 1.0 1.0 3.0	ND ND ND ND	1.0 1.0 1.0 1.0 3.0	NA NA NA NA	-	NA NA NA NA	
TS/SURRUGATE(S/ Thlorobenzene 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 D-Bromofluorobenzene 1,2-Dichloroethane-D4	x x x x x x	86 86 88 99 94 102	50-200 50-200 50-200 76-116 73-117 72-143	87 89 87 101 93 101	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		6SB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-1 (12-16) A05-2260 03/09/2005	RI A5226002RI	GSB-10 (16~20) A05-2260 03/10/2005	A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	NĐ	40000	2000	2000	ND	4000	ND	410
Acenaphthylene	UG/KG	ND	40000	1800 J	2000	NÐ	4000	ND	410
Inthracene	UG/KG	ND	40000	4100	2000	2300 J	4000	ND	410
Jenzo(a)anthracene	UG/KG	ND	40000	7600	2000	3000 J	4000	ND	410
Benzo(b) fluoranthene	ne/ke	ND	40000	12000	2000	2700 J	4000	ND	410
Benzo(k)fluoranthene	UG/KG	ND	40000	13000	2000	ND	4000	ND	410
Benzo(ghi)perylene	UG/KG	ND	40000	ND	2000	ND	4000	ND	410
Benzo(a)pyrene	UG/KG	ND	40000	3800	2000	2300 J	4000	ND	410
hrysene	UG/KG	ND	40000	10000	2000	2600 J	4000	ND	410
ibenzo(a,h)anthracene	UG/KG	ND	40000	1500 J	2000	ND	4000	ND	410
Fluoranthene	UG/KG	23000 J	40000	23000	2000	8500	4000	ND	410
Fluorene	UG/KG	ND	40000	5100	2000	2000 J	4000	ND	410
Indeno(1,2,3-cd)pyrene	U6/K6	ND	40000	1800 J	2000	ND	4000	ND	410
2-Methylnaphthalene	UG/KG	ND	40000	5400	2000	ND	4000	ND	410
Naphtha Lene	UG/KG	ND	40000	3900	2000	ND	4000	ND	410
Phenanthrene	UG/KG	26000 J	40000	25000	2000	9200	4000	180 J	410
Pyrene	UG/KG	15000 J	40000	12000	2000	4800	4000	ND	410
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	X	83	50-200	102	50-200	84	50-200	88	50-2 00
Naphthalene-D8	×	9 1	50-200	101	50-200	92	50-200	93	50-200
Acenaphthene-D10	X	93	50-200	91	50-200	93	50-200	91	50-200
Phenanthrene-D10	X	88	50-200	89	50-200	90	50-200	96	50-200
Chrysene-D12	×	111	50-200	123	50-200	124	50-200	141	50~200
Perylene-D12	X	115	50-200	156	50-200	109	50-200	116	50~200
Nitrobenzene-D5	X	85	30~127	67	30-127	73	30-127	76	30~127
2-Fluorobiphenyl	×	96	36-138	80	36-138	84	36-138	92	36~138
p-Terphenyl-d14	X	76	41-167	66	41-167	60	41-167	68	41-167
Phenol-D5	×	68	34-120	62	34-120	65	34-120	73	34~120
Z-Fluorophenol	×	67	26-120	49	26-120	56	26-120	60	26~120
2,4,6-Tribromophenol	*	91	42-140	76	42-140	88	42-140	96	42-140

, Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-6 (4-8) AG5-2260 O3/10/2005	A5226001	GSB-6 (4-8) DI A05-2260 03/10/2005	A5226001DL	GSB-7 (12-16) A05-2260 03/10/2005	A5226004	GSB-7 (12-16) A05-2260 03/10/2005	RI A5226004RI
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ac enaph thene	UG/KG	320 J	430	ND	2200	ND	4200	ND	420
cenaphthylene	UG/KG	280 J	430	ND	2200	ND	4200	ND	420
nthracene	UG/KG	· ND	430	ND	2200	ND	4200	ND	420
Benzo(a)anthracene	ug/kg	460	430	ND	2200	ND	4200	460	420
Benzo(b)fluoranthene	UG/KG	810	430	ND	2200	ND	4200	830	420
Benzo(k)fluoranthene	UG/KG	910	430	ND	2200	NO	4200	940	420
Benzo(ghi)perylene	U6/K6	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)pyrene	UG/KG	210 J	430	ND	2200	2000 J	4200	1500	420
thrysene	UG/KG	680	430	ND	2200	ND	4200	570	420
pibenzo(a,h)anthracene	UG/KG	ND	430	ND	2200	ND	4200	340 J	420
Fluoranthene	UG/KG	1400	430	1500 DJ	2200	ND ND	4200	300 ป	420
Fluorene	UG/KG	630	430	ND	2200	ND	4200	ND	420
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	2200	ND	4200	300 J	420
2-Methylnaphthalene	UG/KG	13000 E	430	13000 D	2200	ND	4200	ND	420
Naphthalene	UG/KG	3200	430	3400 p	2200	ND	4200	ND	420
Phenanthrene	UG/KG	940	430	1000 pJ	2200	ND	4200	220 J	420
Pyrene	UG/KG	1200	430	980 DJ	2200	ND ND	4200	280 J	420
IS/SURROGATE(S)==									
1.4-Dichlorobenzene-D4	Х	62	50-200	102	50~200	86	50-200	117	50~200
Naphthalene-D8	x	63	50-200	97	50~200	94	50-200	120	50-200
Acenaph thene-D10	X	71	50-200	89	50~200	97	50-200	116	50-200
Phenanthrene-010	×	71	50-200	97	50~200	99	50-200	112	50-200
Chrysene-D12	X	89	50-200	141	50~200	122	50-200	177	50-200
Perylene-D12	 %	100	50-200	142	50~200	118	50-200	139	50-200
Nitrobenzene-D5	7.	120	30-127	101	30~127	77	30-127	58	30-127
2-Fluorobiphenyl	7.	73	36-138	87	36~138	88	36-138	75	36-138
p-Terphenyl-d14	1%	68	41-167	66	41~167	73	41-167	58	41-167
Phenol-D5	×	63	34-120	62	34~120	70	34-120	55	34-120
2-Fluorophenol	X	53	26-120	51	26~120	62	26-120	38	26-120
2,4,6-Tribromophenol	1X	87	42-140	86	42~140	96	42-140	85	42-140

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-9 (4-8) A05-2260 03/09/2005	A5226003	GSB-9 (4-8) RI AO5-2260 O3/O9/20O5	A5226003RI				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	ug/kg	ND	4200	ND	420	NA NA		NA.	
Acenaphthy lene	ug/kg	ND	4200	ND	420	NA NA		NA	i
Anthracene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a) an thracene	UG/KG	ND	4200	350 J	420	NA.		NA	
Benzo(b)fluoranthene	ug/kg	ND	4200	560	420	NA	1	NA	}
Benzo(k)fluoranthene	UG/KG	ND	4200	630	420	NA	İ	NA	
Benzo(ghi)perylene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a)pyrene	UG/KG	ND	4200	· 280 J	420	NA		NA	
Chrysene	UG/KG	ND	4200	360 J	420	NA		NA NA	l
pibenzo(a,h)anthracene	UG/KG	ND	4200	ND	420	NA .		NA	
Fluoranthene	JUG/KG	ND	4200	890	420	NA		NA NA	ļ
Fluorene	UG/KG	ND	4200	ND	420	NA		NA	ĺ
Indeno(1,2,3-cd)pyrene	UG/KG	ND	4200	ND I	420	NA		NA.	ì
2-Methylnaphthalene	ue/ke	ND	4200	690	420	NA.		NA.	1
Naphthalene	UG/KG	ND	4200	140 J	420	NA		NA	
Phenanthrene	UG/KG	ND	4200	520	420	NA		NA NA	1
Pyrene	ue/ke	ND	4200	530	420	NA		Ų NA	1
IS/SURROGATE(S)				 					 -
1,4-Dichlorobenzene-D4	1%	83	50-200	122	50-200	NA		NA NA	
Naphthalene-D8	X	90	50-200	118	50-200	NA		NA.	
Acenaph thene-D10	1%	89	50-200	107	50-200	NA		NA.	1
Phenanthrene-D10	X	88	50-200	103	50-200	NA		NA NA	
Chrysene-D12	X	116	50-200	158	50-200	NA NA		NA	
Perylene-D12	X	116	50-200	181	50-200	NA		NA	1
Nitrobenzene-D5	X	77	30-127	55	30-127	NA NA	}	NA NA	}
2-Fluorobiphenyl	X	94	36-138	68	36-138	NA		NA NA	
p-Terphenyl-d14	*	67	41-167	51	41-167	NA NA	1	NA.	
Phenol~95	×	71	34-120	50	34~120	NA		NA NA] ,
2-Fluorophenol	×	61	26-120	37	26-120	NA NA		NA	İ
2,4,6-Tribromophenol	(%	95	42-140	68	42-140	NA NA		NA NA	ļ

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		6SB-1 A05-2260 03/11/2005	A5226011	GSB-3 A05-2260 03/11/2005	A5226012	GSB-5 A05-2260 03/11/2005	A5226010	GSB-6 A05-2260 03/11/2005	A5226009 ·
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND ND	12	3 J	10	5 J	11
Acenaphthylene	UG/L	ND	10	l ND	12	ND	10	ND	11
Anthracene	UG/L	ND	10	ND ND	12	NÐ	10	ND	11
Benzo(a)anthracene	UG/L	ND	10	ND	12	ND	10	3 J	11
Benzo(b)fluoranthene	UG/L	ND	10	ND ND	12	ND	10	4 3	11
Benzo(k)fluoranthene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(ghi)perylene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(a)pyrene	U6/L	ND	10	ND	12	ND	10	ND	11
Chrysene	UG/L	ND	10	ND	12	2 J	10	3 J	11
pibenzo(a,h)anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Fluoranthene	UG/L	ND	10	ND	12	5 J	10	8 J	11
Fluorene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
2-Methylnaphthalene	UG/L	ND	10	ND	12	ND	10	7 J	11
Naphthalene	UG/L	ND	10	ND	12	ND	10	16	11
Phenanthrene	UG/L	ND	10	ND	12	5 J	10	6 J	11
Pyrene	UG/L	ND	10	ND	12	3 J	10	5 J	11
IS/SURROGATE(S)				 	 		<u> </u>		
1,4-Dichlorobenzene-D4	[%	89	50-200	88	50-200	1 84 1	50-200	86	50-200
Naphthalene-D8	X	95	50-200	96	50-200	90	50-200	90	50-200
Acenaphthene-D10	x	92	50-200	99	50-200	92	50-200	92	50-200
Phenanthrene-D10	x	96	50-200	103	50-200	97	50-200	93	50-200
Chrysene-D12	7	136	50-200	144	50-200	130	50-200	130	50-200
Perylene-D12	1%	119	50-200	119	50-200	115	50-200	114	50-200
Nitrobenzene-D5	×	86	34-121	74	34-121	91	34-121	82	34-121
2-Fluorobiphenyl	1%	98	42-126	79	42-126	103	42-126	92	42-126
p-Terphenyl-d14	1%	55	36-145	42	36-145	68	36-145	53	36-145
Phenol-D5	1%	32	10-110	33	10-110	29	10-110	31	10-110
2-Fluorophenol	x	46	14-120	46	14-120	43	14-120	43	14-120
2,4,6-Tribromophenol	×	104	42-158	92	42-158	115	42-158	104	42-158

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-7 A05-2260 03/11/2005	A5226008						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA.		NA		NA.	
Acenaphthylene	U6/L	ND	10	NA	ļ	NA NA		NA (
inthracene	UG/L	ND	10	NA.		NA NA		NA NA	
enzo(a)anthracene	UG/L	ND	10	NA NA		NA		NA NA	
Benzo(b)fluoranthene	UG/L	ND .	10	. NA		NA NA		NA NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA .		NA NA	ļ	NA	
Benzo(ghi)perylene	UG/L	ND	10	NA NA	1	NA NA	}	NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA NA		NA NA	
Chrysene	UG/L	ND	10	NA	1	NA NA		NA NA	l
ibenzo(a,h)anthracene	UG/L	ND	10	NA.		NA NA		NA NA	
Fluoranthene	U6/L	ND	10	NA		l na		NA NA	
Fluorene	UG/L	ND	10	NA		NA NA		NA.	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA	1	NA NA	}	NA.	
2-Methylnaphthalene	UG/L	2 J	10	NA.		NA.		NA.	
Naphthalene	UG/L	ND	10	NA.		NA		NA.	1
Phenanthrene	UG/L	ND	10	NA NA		. NA	Į.	l NA	
Pyrene	UG/L	ND	10	NA NA		NA NA		NA NA	!
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	[%	86	50-200	NA NA	1	NA NA	1	NA NA	1
Naphthalene-D8	x	91	50-200	NA NA	1	NA.		NA NA	ļ
Acenaphthene-D10	1%	92	50-200	NA		NA NA	i	NA NA	
Phenanthrene-D10	1%	95	50-200	NA.		NA NA	ļ	NA NA	1
Chrysene-D12	x	135	50-200	NA.		NA NA		NA NA	
Perylene-D12	×	113	50-200	NA NA		l NA		NA.	
Nitrobenzene-D5	1%	69	34-121	NA NA		NA NA		NA.	1
2-Fluorobiphenyl	<u>'</u>	74	42-126	NA NA		NA NA		NA.	Į
p-Terphenyl-d14	x	38	36-145	NA .	1	NA NA		NA NA	j
Phenol-95	x	28	10-110	NA NA		NA NA		NA NA	
2-Fluorophenol	x	41	14-120	NA NA		NA NA		NA NA	
2,4,6-Tribromophenol	ž	83	42-158	NA NA]	NA NA		NA NA	
2,4,0=(1 ID) oliopiiello(^	ا ده	42-170	(NA	l .	Į AVA	((""	i

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		GSB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-10 (16-20) A05-2260 03/10/2005) A5226006	- 688-3 (16-20) A05-2260 03/09/2005	A5226005	GSB-6 (4-8) A05-2260 03/10/2005	A5226001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016 Aroclor 1221	UG/KG UG/KG UG/KG	ND ND ND	20 20	ND ND	20 20	ND ND	21 21	ND ND	22 22
Aroclor 1232 Aroclor 1242 Aroclor 1248	UG/KG UG/KG	ND ND	20 20 20	ND ND ND	20 20 20	ND 340 ND	21 21 21	ND ND ND	22 22 22
Aroclor 1254 Aroclor 1260 ———SURROGATE(S)——	ug/kg ug/kg	ND ND	20 20	ND ND	20	220 ND	21 21	420 ND	22 22
Tetrachloro-m-xylene Decachlorobiphenyl	x x	66 368 *	32-148 36-153	74 140	32-148 36-153	65 91	32-148 36-153	44 98	32~148 36~153

Client ID Job No Lab Sample Date	ID	GSB-7 (12-16) AG5-2260 O3/10/2005	A5226004	GSB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	NĐ	21	ND	430	NA		NA NA	
Aroclor 1221	UG/KG	ND	21	ND	430	NA	1	NA NA	1
Aroclor 1232	UG/K6	ND I	21	ND	430	NA	!	NA NA	İ
Aroclor 1242	UG/KG	DN	21	ND	430	NA		NA NA	1
Aroctor 1248	UG/KG	ND	21	ND	430	NA	· 1	NA NA	Ì
Aroclor 1254	UG/KG	ND	21	3000	430	NA ·		NA NA	
Aroclor 1260	UG/KG (ND {	21	ND	430	NA	1	NA NA	
SURROGATE(S)							 		-
Tetrachioro-m-xylene	X	151 *	32-148	OD	32~148	NA.		NA NA	1
Decachlorobiphenyl	X	0 * [36-153	O D	36~153	NA		NA NA	{

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab II Sample Date) 	GSB-1 A05-2260 03/11/2005	A5226011	GSB-5 A05-2260 03/11/2005	A5226010	GSB-7 A05-2260 03/11/2005	A5226008		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	ug/L	ND	0.48	ND	0,49	ND	0.50	NA	
troclor 1221	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	1
kroclar 1232	Ne/T	ND	0.48	ND	0.49	ND	0.50	NA	•
kroclor 1242	UG/∟	ND	0.48	ND	0.49	ND	0.50	NA.	
troctor 1248	U6/L	ND	0.48	ND	0.49	ND	0.50	NA	ŀ
roclor 1254	U6/L	0.32 J	0.48	ND	0.49	ND	0.50	NA]
troclor 1260	U6/L	ND	0.48	ND ND	0.49	ND	0.50	NA	Į
SURROGATE(S)							 		
retrachloro-m-xylene	1%	68	36-132	78	36-132	64	36-132	NA	ļ
ecach lorobipheny l	%	37	28-132	54	28-132	189 *	[28-132 [NA	{

Delta Environmental Consultants, Inc. Binghamton Project TOTAL RCRA METALS

Client ID Job No Lab Sample Date	011	6SB-1 (12-16) A05-2260 03/09/2005	A5226002	GSB-10 (16-20 A05-2260 03/10/2005	A5226006	GSB-3 (16-20) A05-2260 03/09/2005	A5226005	GSB-6 (4-8) A05-2260 03/10/2005	A52Z6001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total Barium - Total Cadmium - Total Chromium - Total Lead - Total Mercury - Total Selenium - Total Silver - Total	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	5.1 148 ND 16.6 208 0.30 ND 2.7	2.4 0.61 0.24 0.61 1.2 0.023 4.9 0.61	5.0 140 ND 24.8 233 0.34 ND	2.4 0.60 0.24 0.60 1.2 0.025 4.8 0.60	7.3 332 0.71 38.8 1200 0.23 ND	2.4 0.61 0.24 0.61 1.2 0.026 4.9 0.61	76.2 304 2.2 39.1 863 3.5 68.8 ND	2.6 0.65 0.26 0.65 1.3 0.27 5.2

Client ID Job No Lab Sample Date	10	GSB-7 (12~16) A05-2260 03/10/2005	A5226004	6SB-9 (4-8) A05-2260 03/09/2005	A5226003				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	4.6	2.4	7.9	2.6	NA		NA	
arium - Total	MG/KG	57.1	0.61	529	0.65	NA	1	NA	
admium - Total	MG/KG	ND	0.24	2.0	0.26	NA	1 (NA	
hromium - Total	MG/KG	17.8	0.61	25.9	0.65	NA		NA	1
_ead - Total	MG/KG	98.9	1.2	1110	1.3	NA	1	NA	
ercury - Total	MG/KG	0.30	0.024	0.34	0.024	NA)	NA)
selenium - Total	MG/KG	ND	4.9	ND	5.2	NA	1	NA	
Silver - Total	MG/KG	ND	0.61	28.5	0.65	NA	ì	NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - RCRA METALS - W

Client ID Job No Lab II Sample Date		GSB-1 A05-2260 03/11/2005	A5226011	GSB-5 A05-2260 03/11/2005	A5226010	6SB-7 A05-2260 03/11/2005	A5226008		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.14	0.010	ND	0.010	0.10	0.010	NA NA	
Barium - Total	MG/L	3.6	0.0020	0.17	0.0020	1,7	0.0020	NA	
admium - Total	M6/L	0.015	0.0010	ND	0.0010	0.0015	0.0010	NA	Į
chromium - Total	MG/L	0.21	0.0040	0.0088	0.0040	0.19	0.0040	NA	1
Lead - Total	MG/L	4.0	0.0050	0.030	0.0050	1,5	0.0050	NA	
Mercury - Total	MG/L	0.050	0.0020	ND	0.00020	0.017	0.00020	NA	1
Selenium - Total	MG/L	ND	0.015	ND	0.015	ND	0.015	NA	}
silver - Total	MG/L	0.088	0.0030	ND	0.0030	0.0041	0.0030	NA	

Batch Quality Control Data

Rept: AN1392

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39

Batch No: A5803478

A5226001sb Lab Sample ID: A5226001 A5226001MS Concentration % Recovery Units of Spike Amount X QC LIMITS Measure RPD RPD | REC. Analyte Sample Matrix Spike Spike Duplicate MSD MS MSD Avg MS TOTAL RCRA METALS MG/KG TOTAL MERCURY 3.47 4.21 220 * 202 18 4.43 0.404 0.439 184 * 20.0 80-120

Rept: AN1392

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39 Batch No: A5B03347

Lab Sample ID: A5226008	A5Z26008MS	A52260	008SD									
		-	Conce	ntration			X R	ecover	,			
Analyte	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike MS	Anount MSD	MS	MSD	Avg	RPD	QC LI RPD	MITS REC.
ELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	75-12
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1_81	0.200	0.200	102	63 *	83	47 *	20.0	80-12
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0_145	0,200	0.200	75 *	72 *	74	4	20.0	80-12
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-12
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0,200	0.200	88	50. *	69	55 *	20.0	80-12
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-12
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-12

Rept: AN1392

MS/MSD Batch QC Results

Date: 03/18/2005 15:40:39 Batch No: A5803478

Lab Sample ID: A5234301	15234301MS	A52343	301SD									
			Concei	ntration			x 1	Recovery	′ 1	i e r	00.1	
Analyte	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike MS	Amount MSD	MS	MSD	Avg	RPD	QC LI RPD	REC.
TOTAL METALS ANALYSIS TOTAL MERCURY	MG/KG	0.0211	0.381	0.362	0.408	0.391	88	87	88	1	[80-120

Chronology and QC Summary Package

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK82 A05-22 6 0	A5B0352902	VBLK83 A05-2260	A5B0352903	VBLK84 A05-2260	A5B0358702		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	ND	25	NA NA	
Benzene	UG/KG	ND	5	ND	5	ND ND	5	NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	ND ND	5	NA	
Bromoform	UG/KG	ND	5	ND	5	ND	5	NA	
Bromomethane	UG/KG	1 J	5	ND	5	1 J	5	NA	i
2-Butanone	UG/KG	ND	25	ND	25	ND	25	NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	ND	5	NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	5	NA	
Chlorobenzene	UG/KG	ND	5	ND	5	ND ND	5	NA.	
chloroethane	UG/KG	ND	5	ND	5	ND	5	NA.	
Chloroform	UG/KG	ND	5	ND	5	ND	5	NA	
Chloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Cyclohexane	UG/KG	ND	5	ND	5	ND	5	NA	ļ
1,2-Dibromoethane	UG/KG	ND	5	ND	5	ND ND	5	NA.]
Dibromochloromethane	UG/KG	ND	5	ND	5	ND CN	5	NA.	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	ND ND	5	NA.	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND ND	5	NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND ND	5	NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND ND	5	NA.	ł
pichlorodifluoromethane	ug/kg	ND	5	ND	5	ND ND	5	NA	
1,1-Dichloroethane	ug/kg	ND	5	ND	5	ND ND	5	NA	
1,2-Dichloroethane	ne/ke	ND	5	ND ND	5	ND ND	5	NA	Ĭ
1.1-Dichloroethene	UG/KG	ND	5	ND	5	ND .	5	NA	1
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	,
1,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	5	NA NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	Ś	NA NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND ND	5	NA	Į
Ethylbenzene	UG/KG	ND	Ś	ND	5	ND ND	5	NA NA	
2-Hexanone	UG/KG	ND	25	ND	25	ND ND	25	NA NA	
Isopropylbenzene	UG/KG	ND	5	ND ND	5	ND ND	5	NA.	1
Methyl acetate	UG/KG	ND	5	ND	5	ND ND	5	NA.	
Methylcyclohexane	U6/K6	ND	5	ND	5	ND ND	5	NA NA	1
Methylene chloride	ug/kg	ND	5	ND	, ,	ND ND	5	NA NA	1
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	ND	25	l NA	1
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	5	ND ND	5	NA NA	
Styrene	UG/KG	ND	5	ND	5	ND ND	5	NA NA	
1,1,2,2-Tetrachloroethane	UG/KG	, ND	5		-	1 ''-	5	NA NA	
	UG/KG	, ND	5	ND	5	ND ND	5	NA NA	1
Tetrachloroethene	UG/KG	ND ND	5	ND	5	ND	5	NA NA	Ì
Toluene	1 7- 1		- I	ND	5	ND ND	1		-
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA NA	1
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND .	5	ND '	5	Į NA	Į.

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK82 A05-2260	A5B0352902	VBLK83 A05-2260	A5B0352903	VBLK84 A05-2260	A5B0358702		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
,1,2-Trichloro-1,2,2-trifluor	ue/ke	ND ND	5	ND ND	5	ND ND	5	NA NA	
richloroethene	ug/Kg	ND	5	ND	5	ND	5	NA	
••••	UG/KG UG/KG	ND . ND	10 15	ND ND	10 15	ND ND	10 15	NA NA	
====1s/surrogate(s)=====		. 172	12	ND		ND			-}
:htorobenzene-D5	×	80	50-200	82	50-200	85	50-200	NA	[
,4-pifluorobenzene	×	80	50-200	81	50-200	88	50-200	NA	
,4-Dichlorobenzene-D4	×	71	50-200	72	50-200	76	50-200	NA	
oluene-D8	%	99	71-125	99	71-125	96	71-125	NA	1
-Bromofluorobenzene	x	84	68-124	87	68-124	86	68-124	NA	
1,2-Dichloroethane-D4	[x	87 -	61-136	77	61-136	85	61-136	NA	Į

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		VBLK75 A05-2260	A5B0354702						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA NA		NA NA	1	NA.	
Bromodichloromethane	UG/L	ND	1.0	NA NA		NA NA		NA NA	
3romoform	UG/L	ND	1.0	NA NA		NA		NA.	
Promomethane	UG/L	ND	1.0	NA NA		NA NA		NA.	
2-Butanone	UG/L	ND	5.0	NA NA		NA NA	1	NA NA	
Carbon Disulfide	UG/L	ND	1.0	NA NA		NA NA		NA NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA NA		NA NA		NA NA	1
Chlorobenzene	UG/L	ND	1.0	NA NA		NA NA		NA	
Chloroethane	UG/L	ND	1.0	NA NA		NA NA		NA NA	1
Chloroform	UG/L	ND	1.0	NA NA		NA NA		NA NA	1
chloromethane	UG/L	ND	1.0	NA NA		NA NA		NA NA	
Cyclohexane	UG/L	ND	1.0	NA NA	ļ		1	NA NA	
1,2-Dibromoethane	UG/L	ND	1.0			NA NA	1		
pjbromochloromethane	UG/L	ND	1.0	NA NA	i	NA NA		NA NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0		ļ	NA NA			
1,2-Dichlorobenzene	UG/L	ND	1.0	NA NA	}	NA		NA	
	UG/L	ND	1.0	NA NA		NA NA		NA	
1,3-pichlorobenzene	UG/L	***		NA NA		NA NA		NA	
1,4-Dichlorobenzene		ND	1.0	NA NA		NA NA		NA 	
Dichlorodifluoromethane	UG/L	ND	1.0	NA NA		NA NA		NA	ì
1,1-Dichloroethane	UG/L	ND	1.0	NA NA	<u> </u>	NA NA		NA NA	
1,Z-Dichloroethane	UG/L	ND	1.0	NA NA		NA		NA NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA NA		NA NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA NA		NA NA		NA NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA NA	l	NA NA		NA	İ
1,2-Dichloropropane	UG/L	ND	1.0	NA NA		NA NA	}	NA	
cis-1,3-Dichloropropene	ne\r	ND	1.0	NA NA	}	NA NA	1	NA NA	1
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA NA		NA NA		NA	
Ethylbenzene	UG/̈∟	ND	1.0	NA NA		NA NA	1	NA	1
2-Hexanone	ne\r	. ND	5.0	NA NA	i	NA NA		NA NA	
Isopropylbenzene	UG/L	ND	1.0	NA NA		NA.	1	NA NA	
Methyl acetate	UG/L	ND	1.0	NA NA		NA NA	1	NA .	
nethylcyclohexane	UG/L	ND	1.0	NA NA		NA NA		NA	
Methylene chloride	UG/L	ND	1.0	NA NA		NA NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA NA		NA.	1	NA	1
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA NA		NA.		NA	
Styrene	UG/L	ND	1.0	l NA	ļ	NA.		NA NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	l NA	Ì	NA NA	1	NA.	
Tetrachloroethene	UG/L	ND	1.0	l NA		NA NA		NA.	
	UG/L	ND	1.0	l NA		NA NA		NA NA	Į.
Toluene	UG/L	ND		•		1		NA NA	1
1,2,4-Trichlorobenzene		***	1.0	NA NA		NA NA		NA NA	
1,1,1-Trichloroethane	UG/L	ND ND	1.0	NA NA		NA NA		NA NA	
1,1,2-Trichloroethane	UG/L	עוא	1.0	NA NA	l.	NA NA	l	1 70	1

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab I Sample Date	D	VBLK75 A05-2260	A5B0354702	·					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trif Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L	ND ND ND ND	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA		AN AN AN AN	
TS/SURVOS/TECS/ Chlorobenzene 1,4-Difluorobenzene 1,4-Dichlorobenzene-D4 Toluene-D8 p-Bromofluorobenzene 1,2-Dichloroethane-D4	X X X X X	91 91 88 99 94 106	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: ANO326

Client ID Job No Lab ID Sample Date		MSB83 A05-2260	A5B0352901	MSB84 A05-2260	A5B0358701				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	45	5	50	5	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	1
Bromoform	UG/KG	ND	5	ND	5	NA NA	•	NA	
Bromome thane	UG/KG	2 J	5	2 BJ	5 .	NA NA		NA	
Z-Butanone	ue/ke	ND	25	ND	25	. NA		NA	1
Carbon Disulfide	UG/KG	ND	5	ND	5	NA NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	NA		NA	1
Chlorobenzene	UG/KG	48	5	49	5	NA NA		NA	
Chloroethane	UG/KG	ND	5	ND	5	NA.		NA	
Chloroform	UG/KG	ND	5	ND	5	NA		NA.	1
Chloromethane	ue/ke	ND	5	ND	5	. NA		NA.	1
Cyclohexane	UG/KG	ND	ĺ Ś	ND	5	NA NA	1	NA NA	1
1,2-Dibromoethane	UG/KG	ND	5	ND	5	NA NA		NA NA	
pibromochloromethane	UG/KG	ND	Š	ND	5	NA		NA.	i
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA NA		NA	-
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA.	Ì
1,3-pichlorobenzene	UG/KG	ND	, 5	ND	5	NA NA		NA	
1,4-pichlorobenzene	UG/KG	ND	5	ND	5	NA NA		NA.	
pichlorodifluoromethane	UG/KG	ND	5	ND	5	NA NA		l NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	NA NA		NA.	1
1,2-Dichloroethane	UG/KG	ND	5	ND	5	NA NA		NA NA	i
1,1-pichloroethene	UG/KG	36	5	53	5	NA NA		NA NA	1
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA NA	•	NA NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA NA		NA NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	NA NA		NA NA	
cis-1,3-Dichloropropene	UG/KG	ND .	5	ND	5	NA NA		NA NA	
	UG/KG	ND	5	ND ND	5	NA NA		NA NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	•	5	NA NA		NA NA	1
Ethylbenzene	UG/KG	ND ND	25	ND ND	25			NA NA	
2-Hexanone	UG/KG	ND I	25 5	ND NO	5	NA NA		NA NA	
Isopropylbenzene	UG/KG	ND ND	5	ND	5			NA NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA NA	1	NA NA	1
Methylcyclohexane	UG/KG	ND ND	5	ND ND	5			NA NA	
Methylene chloride	UG/KG		25	ND	1	NA **A	ĺ	NA NA	-
4-Methyl-2-pentanone		ND	25 5	ND	25	NA NA		NA NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND		ND	5	NA	ł	E .	Į
Styrene	UG/KG	ND	5 .	ND	5	NA		NA NA	
1,1,2,2-Tetrachloroethane	ne\ke	ND	5	ND	5	NA NA		NA NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	NA.		NA NA	
Toluene	UG/KG	48	5	49	5	NA NA		NA NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA NA		NA MA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	NA NA		NA NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	NA NA	l .	NA NA	l

STL Buffalo

Delta Environmental Consultants, Inc. Binghamton Project DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		MSB83 A05-2260	A580352901	MSB84 A05-2260	A5B0358701				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Frichlorofluoromethane Frichloroethene Vinyl chloride Total Xylenes	ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND 44 ND ND	5 5 5 10 15	ND ND 49 ND ND	5 5 5 10 15	NA NA NA NA		AN AN AN AN	
Is/SURROGATE(S)————————————————————————————————————	* * * * * *	87 87 77 97 86 87	50-200 50-200 50-200 71-125 68-124- 61-136	93 93 86 93 85 86	50-200 50-200 50-200 71-125 68-124 61-136	NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: ANO326

Client ID MSB75 A05-2260 Job No Lab ID A5B0354701 Sample Date Sample Reporting Sample Sample Report ing Sample Reporting Reporting Analyte Units Value Limit Value Limit Value Limit Value Limit [UE/L 40 5.0 NA ΝA NA Acetone UG/L 10 Benzene 1.0 NA NA NA Bromodichloromethane UG/L 10 1.0 NΑ NA NA |υG/L 10 Bromoform 1.0 NΑ NA NA Bromomethane UG/L 8.1 1.0 NA NΑ NA UG/L 51 5.0 2-Butanone NA NA NΑ Carbon Disulfide UG/L 6.6 1.0 NA NΑ NA UG/L 10 Carbon Tetrachloride 1.0 NA NA NA chlorobenzene UG/L 9.8 1.0 NA NA NA Chloroe thane UG/L 8.9 1.0 NΑ NA NA UG/L chloroform 10 1.0 NA NA NA UG/L 8.3 chloromethane 1.0 NA NΑ NA UG/L 9.8 Cyclohexane 1.0 NA NA NA 1,2-Dibromoethane UG/L 10 NA 1.0 NA NA pibromochloromethane UG/L 10 1.0 NA NA NA 1,2-Dibromo-3-chloropropane UG/L 10 NA 1.0 NA NA 1,2-Dichlorobenzene UG/L 9.8 NA 1.0 NA NA 1,3-Dichlorobenzene UG/L 9.8 1.0 NA NA NA UG/L 9.8 NA 1,4-Dichlorobenzene 1.0 NA NA Dichlorodifluoromethane UG/L 10 1.0 NA NA NA UG/L 10 NA 1.1-pichloroethane 1.0 NA NA 1,2-Dichloroethane lug/L 11 NA 1.0 NA NA 1,1-Dichloroethene UG/L 8.9 1.0 NA NA NA UG/L NA cis-1,2-Dichloroethene 10 1.0 NA NA UG/L 9.7 NA trans-1,2-Dichloroethene 1.0 NA NA UG/L 10 NA 1.2-Dichloropropane 1.0 NA NA cis-1,3-Dichloropropene UG/L 10 1.0 NA NA NA trans-1,3-Dichloropropene UG/L 10 1.0 NA NA NA Ethylbenzene lug/L 10 1.0 NA NA NA UG/L 52 NA 2-Hexanone 5.0 NA NA UG/L 10 NA 1.0 Isopropylbenzene NA NA NA Methyl acetate lug/L 6.4 1.0 NA NΑ UG/L 9.9 1.0 NA Methylcyclohexane NA NA NA UG/L 9.2 Methylene chloride 1.0 NA NA 4-Methyl-2-pentanone UG/L 52 NA 5.0 NA NA Methyl-t-Butyl Ether (MTBE) UG/L 10 NA 1.0 NA NA NA lug/L 10 1.0 NA NA Styrene NA 9.8 1,1,2,2-Tetrachloroethane UG/L 1.0 NA NA NA 39/89 Tetrachloroethene UG/L 10 1.0 NA NA NA UG/L 9.8 1.0 NA NA Toluene NA UG/L 10 NA 1,2,4-Trichlorobenzene 1.0 NA NA NA 1,1,1-Trichloroethane UG/L 10 1.0 NA NA 1,1,2-Trichloroethane UG/L 9.8 1.0 NA NA

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		MSB75 A05-2260	A5B0354701						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane Trichloroethene Vinyl chloride Total Xylenes	UG/L UG/L UG/L UG/L UG/L	8.4 9.6 9.9 9.1 30	1.0 1.0 1.0 1.0 3.0	NA NA NA NA		NA NA NA NA		NA NA NA NA	
TS/SURVORTELS/	x	91 89 94 99 96 104	50-200 50-200 50-200 76-116 73-117 72-143	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		TRIP BLANK A05-2260 03/11/2005	A5226013						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	ne\r	ND	5.0	NA	1	NA NA	1	NA	
Benzene	UG/L	ND	1.0	NA .	l l	NA.	1	NA.	ļ
Bromodichloromethane	UG/L	ND	1.0	NA	1	NA NA	Ī	NA NA	1
Bromoform	UG/L	ND	1.0	NA .	1	NA	1	NA	
Bromome thane	ne/r	ND	1.0	NA	1	NA NA	1	NA NA	
2-Butanone	UG/L	ND	5.0	NA	1 1	NA NA	1	NA NA	
Carbon Disulfide	UG/L	ND	1.0	NA NA	1	NA NA	,	NA.	
Carbon Tetrachloride	UG/L	ND	1.0	NA NA	1	NA NA	,	NA	
Chlorobenzene	UG/L	ND	1.0	NA NA	1	NA NA	Ţ	NA NA	
Chloroethane	UG/L	ND	1.0	NA NA	1	NA NA	Ţ	NA NA	1
Chloroform	UG/L	ND	1.0	NA NA	1	NA NA	j	NA	
Chloromethane	UG/L	ND	1.0	NA NA	1	NA NA	,	NA.	
Cyclohexane	UG/L	ND	1.0	NA	1	NA NA	· I	NA	
1,2-Dibromoethane	ug/L	ND	1.0	NA NA	1	NA NA	1	NA NA	
Dibromochloromethane	UG/L	ND	1.0	NA NA	1	NA NA	,	NA NA	j
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA NA	1	NA NA	· '	NA	ļ
1,2-Dichlorobenzene	UG/L	ND	1.0	NA NA	Ŧ	NA NA	,	NA.	
1,3-Dichlorobenzene	ne/r	ND	1.0	NA NA	,	NA NA	· '	NA NA	
1.4-Dichlorobenzene	UG/L	ND .	1.0	NA NA	1	NA NA	'	NA NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA NA	1	l NA	· '	NA.	
1,1-Dichloroethane	ne/r	ND	1.0	NA NA	1	NA NA	·	NA.	
1,2-Dichloroethane	UG/L	ND	1.0	NA NA	1	NA NA	'	NA NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA NA	1	NA NA	'	NA NA	l
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA NA	j	NA NA	1	NA NA	ļ
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA NA	1	NA NA	'	NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA NA	1	NA NA	1	NA.	
cis-1,3-Dichloropropene	UG/L	ND ·	1.0	NA NA	J	NA NA	'	NA NA	}
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA NA	J	NA NA	'	NA NA	
Ethylbenzene	UG/L	ND	1.0	NA NA	1	NA NA	·	NA NA	
2-Hexanone	UG/L	ND	5.0	NA	1	NA NA	·	NA NA	İ
Isopropylbenzene	UG/L	ND ND	1.0	NA NA	,	NA NA	'	NA NA	
Methyl acetate	UG/L	ND	1.0	NA NA	· · · ·	NA NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA NA	1	NA NA		NA.	ĺ
Methylene chloride	UG/L	ND	1.0	NA NA	·	NA NA	,	NA	ļ
4-Methyl-Z-pentanone	UG/L	ND	5.0	NA NA		NA NA	,	NA.	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA	1	NA NA		NA NA	
Styrene	UG/L	ND ND	1.0	NA NA	,	NA NA		NA.	1
Styrene 1,1,2,2-Tetrachloroethane	UG/L	ND ND	1.0	NA NA	1	NA NA		NA NA	
	UG/L	ND ND	1.0		1	1		NA NA	ļ
Tetrachloroethene	UG/L UG/L	ND ND	1.0	NA NA	1	NA NA		NA NA	1
Toluene		l l		NA NA	1 '	NA.		NA NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA NA	· · · · · · · · · · · · · · · · · · ·	NA NA		1	
1,1,1-Trichtoroethane	UG/L	ND	1.0	NA	,	NA NA		NA NA	
1,1,2-Trichloroethane	U6/L	ND	1.0	NA	,	NA NA	į	NA NA	į.

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID Job No Lab ID Sample Date		TRIP BLANK A05-2260 03/11/2005	A5226013					·	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA NA	
	UG/L	ND	1.0	NA		NA		NA	
	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes ———IS/SURROGATE(S)————	UG/L	ND	3.0	NA NA		NA		NA .	
Chlorobenzene-D5	x	83	50-200	NA		NA		NA	
1.4-Difluorobenzene	×	85	50-200	NA		NA		NA NA	
1,4-Dichlorobenzene-D4	×	79	50-200	NA		NA		NA NA	
Toluene-D8	×	101	76-116	NA		NA		NA NA	ĺ
p-Bromofluorobenzene	7.	94	73-117	NA		NA		NA NA	
1,2-Dichloroethane-D4	7	103	72-143	NA		NA	 	NA NA	l

Delta Environmental Consultants, Inc.

Binghamton Project

DELTA - METHOD 8270~HSL POLYNUCLEAR AROMATIC HYPRO

Rept: ANO326

Client ID SBLK Job No Lab ID A05-2260 A5B0334302 Sample Date Sample Reporting Sample Reporting Sample Reporting Sample Reporting Analyte Units Value Limit Value Value Limit Linit Value Limit Acenaphthene UG/KG NĐ 320 NA NΑ NA UG/KG Acenaph thy lene ND 320 NA NA NΑ Anthracene UG/KG ND 320 NA NA NA UG/KG Benzo(a)anthracene ND 320 NA NΑ NA Benzo(b) fluoranthene ue/ke ND 320 NA NA NA Benzo(k)fluoranthene UG/KG ND 320 NA NΑ NA UG/KG Benzo(ghi)perylene ND 320 NA NΑ NA Benzo(a)pyrene UG/KG ND 320 NA NA NA UG/KG Chrysene ND 320 NA NΑ NA Dibenzo(a,h)anthracene UG/KG ND 320 NA NΑ NA Fluoranthene UG/KG NĐ 320 NA NA NA UG/KG ND 320 Fluorene NA NΑ NA UG/KG Indeno(1,2,3-cd)pyrene ND 320 NA NA NA 2-Methylnaphthalene UG/KG NĐ 320 NA NA NA UG/KG 320 Naphthalene ND NA NA NA UG/KG Phenanthrene ND 320 NA NA NA UG/KG ND 320 NA NA Pyrene NA ===1S/SURROGATE(S)= z 1.4-Dichlorobenzene-D4 98 50-200 NA NA NA × Naphthalene-D8 103 50-200 NA NA NA Acenaphthene-010 X X X 104 50-200 NA NA NA Phenanthrene-D10 101 50-200 NA NA NA Chrysene-D12 116 50-200 NA NΑ NA 7 Perylene-012 136 50-200 NA NA NA Nitrobenzene-D5 84 30-127 NA NA NA 2-Fluorobiphenyl 95 36-138 NA NA NA χ χ p-Terphenyl-d14 86 41-167 NA NA NA 81 Phenol-05 34-120 NA NA NA 2-Fluorophenol 74 26-120 NA NA NA 2,4,6-Tribromophenol 96 42-140 NA NA NA

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		SBLK A05-2260	A580334503						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaph thene	UG/L	ND	10	NA NA		NA NA		NA NA	
Acenaphthylene	UG/L	ND	10	NA NA		NA I		NA NA	
Anthracene	UG/L	ND	10	NA .		NA I		NA NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA NA		NA NA	
Benzo(b) fluoranthene	UG/L	ND	10	NA.		NA NA		NA I	
Benzo(k)fluoranthene	UG/L	ND	10	NA NA		NA NA	ļ	NA NA	
Benzo(ghi)perylene	UG/L	ND	10	NA NA		NA NA		NA.	
Benzo(a)pyrene	UG/L	ND	10	NA.		NA NA		NA NA	
Chrysene	UG/L	ND	10	NA.		NA NA		NA	
pibenzo(a,h)anthracene	UG/L	ND	10	NA NA		NA.		NA	
Fluoranthene	UG/L	ND	10	NA.		NA NA		NA NA	
Fluorene	UG/L	ND	10	NA.		NA NA		NA	
Indeno(1,2,3-cd)pyrene	U6/L	ND	10	NA.		NA NA		NA	
2-Methylnaphthalene	U6/L	ND	10	NA.		NA.		NA	
Naph tha Lene	UG/L	ND	10	NA		NA		NA	
Phenanthrene	U6/L	ND	10	NA NA		NA NA		NA.	
Pyrene	UG/L	ND	10	NA NA		NA		NA NA	
IS/SURROGATE(S)		<u> </u>							
1,4-Dichlorobenzene-D4	x	84	50-200	NA NA	ĺ	NA NA		NA	
Naphthalene-D8	 	91	50~200	NA		. NA		NA NA	
Acenaph thene-D10	*	92	50-200	NA.		NA NA		NA.	
Phenanthrene-D10	×	96	50-200	NA NA		NA.		NA.	
Chrysene-D12	*	129	50-200	. NA		NA.		NA	
Perylene-D12	×	109	50-200	NA		NA.		NA	
Nitrobenzene-D5	۱,۳	85	34~121	NA	Į	NA.	ŀ	NA	
2-Fluorobiphenyl	x	99	42-126	NA NA		NA NA		NA NA	
p-Terphenyl-d14	x	86	36-145	NA:		NA NA		NA.	1
Phenol-05	x	29	10-110	NA NA		NA NA		NA NA	
2-Fluorophenol	×	42	14-120	NA NA		NA		NA.	
2,4,6-Tribromophenol	l x	120	42-158	NA NA		NA.		NA.	

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		GSB-6 (4-8) AO5-2260 O3/10/2005	A5226001MS	6SB-6 (4-8) A05-2260 03/10/2005	A52Z6001SD	Matrix Spike B A05-2260	lank A580334301		
Analyte	Units	Sample Value	Reporting Limit	Semple Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	3400	430	3300	430	2800	320	NA NA	
Acenaphthylene	UG/KG	270 J	430	240 J	430	NÐ	320	NA	
Anthracene	UG/KG	ND	430	ND	430	ND	320	NA	
Benzo(a)anthracene	UG/KG	400 J	430	370 J	430	ND	320	NA	1
Benzo(b)fluoranthene	UG/KG	830	430	780	430	ND	320	NA	!
Benzo(k)fluoranthene	UG/KG	940	430	880	430	ND	320	NA	j .
Benzo(ghi)perylene	UG/KG	ND	430	ND	430	ND ND	320	NA	
Benzo(a)pyrene	UG/KG-	200 J	430	200 J	430	ND	320	NA]
Chrysene	UG/KG	650	430	600	430	ND	320	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	430	ND I	320	NA	
Fluoranthene	UG/KG	1400	430	1500	430	ND	320	NA	
Fluorene	ug/kg	570	430	520	430	ND	320	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	430	ND	320	NA	1
Z-Methylnaphthalene	UG/KG	12 00 0 E	430	11000 E	430	ND	320	NA	1
Naphthalene	UG/KG	3200	430	2800	430	ND	320	NA	
Phenanthrene	U6/KG	830	430	810	430	ND .	320	NA	
Pyrene	U6/K6	3500	430	3200	430	2800	320	NA	[
======IS/SURROGATE(S)=====				 	<u></u>	 			
1,4-Dichlorobenzene-04	×	90	50-200	86	50-200	97	50-200	NA	
Naphthalene-D8	×	93	50-200	88	50-200	103	50-200	NA	i
Acenaphthene-D10	×	102	50-200	97	50-200	105	50-200	NA	
Phenanthrene-D10	×	105	50-200	101	50-200	102	50-200	NA	1
Chrysene-D12	×	155	50-200	164	50-200	114	50-200	NA	
Perylene-D12	x	153	50-200	136	50-200	136	50-200	NA	
Nitrobenzene-D5	×	118	30-127	114	30-127	78	30-127	NA	
2-Fluorobiphenyl	X	76	36-138	74	36-138	90	36-138	NA NA	
p-Terphenyl-d14	×	60	41-167	55	41-167	84	41-167	NA	
Phenol-D5	×	64	34-120	59	34-120	75	34-120	NA NA	
2-Fluorophenol	x	55	26-120	51	26-120	69	26-120	NA.	
2.4.6-Tribromophenol	x	83	42-140	79	42-140	96	42-140	NA	1

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID Job No Lab ID Sample Date		Matrix Spike I A05-2260	Blank A5B0334501	Matrix Spike 1 A05-2260	Blk Dup A5B0334502				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	90	10	84	10	NA NA		NA.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Acenaph thy Lene	UG/L	ND	10	ND	10	NA		NA	
nthracene	U6/L	ND	10	ND	10	NA		NA	
enzo(a)anthracene	UG/L	ND	10	ND	10	NA		NA	ł
Benzo(b)fluoranthene	UG/L	ND	10	ND	10 1	NA NA		NA	
enzo(k)fluoranthene	UG/L	ND	10	ND	10	NA.		NA	1
Benzo(ghi)perylene	UG/L	ND	10	ND	10	NA NA		NA	
Benzo(a)pyrene	UG/L	ND	10	ND	1 10	NA		NA	
hrysene	UG/L	ND	10	ND	10	NA .		NA	
oibenzo(a,h)anthracene	UG/L	ND	10	ND	10	NA .		NA	İ
Fluoranthene	UG/L	ND	10	ND	10	NA NA	•	NA	
Fluorene	UG/L	ND	10	ND	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	NA NA		NA.	
2-Methylnaphthalene	UG/L	ND	10	ND	10	NA NA		NA.	ĺ
Naphtha lene	UG/L	ND	10	ND	10 1	NA NA		NA.	ļ
Phenanthrene	UG/L	ND	10	ND	l 10 l	NA.		NA.	
Pyrene	U6/L	86	10	84	10	NA ·	İ	NA.	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	× 1	82	50-200	83	50-200	NA ·	•	NA NA	{
Naphthalene-D8	1%	90	50-200	92	50-200	NA		NA NA	
Acenaphthene-D10	*	95	50-200	96	50-200	NA		l NA	
Phenanthrene-D10	1x	95	50-200	96	50-200	NA		NA NA	
Chrysene-D12	%	123	50-200	129	50-200	NA.		NA	
Perylene-D12		102	50-200	108	50-200	NA.	Ì	NA	ļ
Nitrobenzene-05		90	34-121	80	34-121	NA.		NA NA	1
2-Fluorobiphenyl		99	42-126	90	42-126	NA		NA	
p-Terphenyl-d14	7	79	36-145	78	36-145	NA NA		NA ·	
Phenol-05	× 1	. 31	10-110	29	10-110	NA.		NA NA	
2-fluorophenol	l x	44	14-120	41	14-120	NA.		NA	
2,4,6-Tribromophenol	l x	116	42-158	111	42-158	NA		NA	

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab Sample Date	1D	Method Blank A05-2260	A5B0337302						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG UG/KG	ND ND	16	NA		NA		NA NA	
Aroclor 1221 Aroclor 1232	UG/KG	ND	16 16	NA NA		NA NA		NA NA	
Aroclor 1242 Aroclor 1248	UG/KG UG/KG	ND ND	16 16	NA NA		NA NA		NA NA	
Aroclor 1254	ug/kg	ND	16	NA NA		NA		NA NA	
Aroclor 1260 SURROGATE(S)	UG/KG	ND	16	NA	1	NA		NA	
Tetrachloro-m-xylene Decachlorobiphenyl	x x	82 88	32-148 36-153	NA NA		NA NA		NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		Method Blank A05-2260	A5B0337802						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	UG/L UG/L UG/L UG/L UG/L UG/L	ND ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50	NA NA NA NA NA		NA NA NA NA NA		NA NA NA NA NA NA	
SURROGATE(S) Tetrachloro-m-xylene Decachlorobiphenyl	% %	70 68	36-132 28-132	NA NA		NA NA		NA NA	

Delta Environmental Consultants, Inc. Binghamton Project DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		Matrix Spike A05-2260	Blank A580337301						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA	1	NA NA		NA	1
Aroclor 1221	UG/KG	ND	16	NA		NA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NA	1
Aroclor 1232	ne\ke	ND	16	NA	1	` NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NΑ		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	ue/ke	160	16	NA		NA		NA	į
Aroclor 1260 ————SURROGATE(S)———	ug/ke	ND	16	NA		NA		NA .	
Tetrachloro-m-xylene	x	82	32-148	NA		NA		NA	
Decachlorobiphenyl	 %	84	36-153	NA	1	NA		NA	

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date	,	Matrix Spike A05-2260	Blank A580337801						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	U6/L U6/L U6/L U6/L U6/L U6/L	4.5 ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50	NA NA NA NA NA		NA NA NA NA NA	·	NA NA NA NA NA NA	
SURROGATE(S) Tetrachloro-m-xylene Decachlorobiphenyl	x x	70 69	36-132 28-132	NA NA		NA NA		NA NA	

Delta Environmental Consultants, Inc. Binghamton Project TOTAL RCRA METALS

Client ID Job No Lab ID Sample Date		Method Blank A05-2260	A5B0334602	Method Blank A05-2260	A580347802				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Selenium - Total	MG/KG	ND	4.0	NA NA		NA NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA NA		NA	1	NA	ł
Barium - Total	MG/KG	ND	0.50	NA NA	1	NA	1	NA	Į.
Cadmium ~ Total	MG/KG	ND	0.20	NA NA	1	NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA NA		NA		NA	1
Lead - Total	MG/KG	ND	1.0	NA NA	1	NA		NÁ	
Silver - Total	MG/KG	ND	0.50	NA NA		NA)	NA	1
Mercury ~ Total	MG/KG	NA		ND	0.020	NA		NA	1

Delta Environmental Consultants, Inc. Binghamton Project DELTA ~ RCRA METALS - W

Client ID Job No Sample Date	Lab ID	Method Blank A05-2260	A5B0334702	Method Blank A05-2260	A580339202				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	NA		NA NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA NA		NA		NA	
Barjum - Total	MG/L	ND	0.0020	NA I	1	NA	}	NA	
Chromium - Total	MG/L	ND	0.0040	NA I		NA	1	NA	
Lead - Total	MG/L	ND	0.0050	NA .	!	NA		NA	İ
Mercury - Total	MG/L	NA NA		ND	0.00020	NA		NA	
Selenium - Total	MG/L	₩D	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA	1	NA		NA	l .

Delta Environmental Consultants, Inc. Binghamton Project TOTAL RCRA METALS Rept: ANO326

Client ID GSB-6 (4-8) GSB-6 (4-8) LCS LCS CLP Soils Job No Lab ID A05-2260 A52Z6001MS A05-2260 A05-2260 A5226001SD A05-2260 A5B0347801 A580334601 03/10/2005 Sample Date 03/10/2005 Sample Report ing Sample Reporting Sample Reporting Sample Reporting Analyte Units Value Limit Value Value Limit Value Limit Limit Arsenic - Total MG/KG 53.0 2.6 70.2 2.6 NA 276 2.0 Barium - Total MG/KG 173 0.66 270 268 0.50 0.65 NA Cadmium - Total MG/KG 19.5 0.26 83.1 0.20 17.4 0.26 NA Chromium - Total MG/KG 44.9 0.66 90.4 95.5 0.50 0.65 NA Lead - Total MG/KG 577 1.3 1100 98.2 1.3 NA 1.0 MG/KG Mercury - Total 4.2 0.24 4.4 0.26 1.9 0.10 NA MG/KG Selenium - Total 36.7 5.3 50.3 79.9 4.0 5.2 NA Silver - Total MG/KG 5.1 0.66 89.7 0.50 4.7 0.65 NΑ

Date: 03/24/2005 Time: 16:19:49 Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - RCRA METALS - W

Rept: ANO326

Client ID Job No Lab Sample Date	ID	6\$B-7 A05-2260 03/11/2005	A5226008MS	GSB-7 A05-2260 03/11/2005	A5226008SD	LCS A05-ZZ60	A580339201	LFB A05-2260	A580334701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/∟	0.27	0.010	0.25	0.010	NA		0.21	0.010
Barjum - Totał	MG/L	1.9	0.0020	1.8	0.0020	NA	,	0.20	0.0020
Cadmium - Total	MG/L	0.15	0.0010	0.14	0.0010	NA NA	1	0.20	0.0010
chromium - Total	MG/L	0.35	0.0040	0.33	0.0040	NA NA		0.20	0.0040
_ead - Total	MG/L	1.7	0.0050	1.6	0.0050	NA		0.21	0.0050
iercury - Total	MG/L	0.021	0.0010	0.021	0.0010	0.0035	0.00020	NA NA	
Selenium - Total	MG/L	0.16	0.015	0.15	0.015	NA		0.20	0.015
silver - Total	MG/L	0.043	0.0030	0.042	0.0030	NA		0.050	0.0030

Client Sample ID: VBLK75 Lab Sample ID: A5B0354702 MSB75 A5B0354701

		Concentr			
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8260/25 ML - TCL VOLATILE					
1,1-Dichloroethene	UG/L	8.89	10.0	89	65-138
Trichloroethene	UG/L	9.92	10.0	99	71-120
Benzene	UG/L	10.0	10.0	100	67-126
Toluene	UG/L	9.77	10.0	98	71-120
Chlorobenzene	UG/L	9.81	10.0	98	74-120

Client Sample ID: VBLK83 Lab Sample ID: A5B0352903 MSB83 A5B0352901

Concentration Units of Blank Spike % Recovery QC Spike Measure **Amount** Blank Spike LIMITS Analyte DELTA-METHOD 8260 - TCL VOLATILE ORGANIC UG/KG 1,1-Dichloroethene 35.7 50.0 71 65-146 UG/KG Trichloroethene 44.3 50.0 74-127 89 UG/KG 44.6 50.0 74-128 Benzene 89 UG/K6 Toluene 48.3 50,0 97 74-123 UG/KG chlorobenzene 48.1 50.0 96 76-124

Client Sample ID: VBLK84 Lab Sample ID: A5B0358702

MSB84 A580358701

		Concent		1	
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC	•	<u> </u>			
1,1-Dichloroethene	ug/ke	53.4	50.0	107	65-146
Trichloroethene	UG/KG	48.9	50.0	98	74-127
Benzene	UG/KG	49.9	50.0	100	74-128
Toluene	UG/KG	49.4	50.0	99	74-123
Chlorobenzene	UG/KG	48.9	50.0	98	76-124

Date : 03/24/2005 16:19:59

SAMPLE DATE 03/10/2005

Rept: ANO364

Client Sample ID: GSB-6 (4-8) Lab Sample ID: A5226001 GSB-6 (4-8) A5226001MS 6SB-6 (4-8) A5226001SD

			Conce	ntration			% I	Recover	,		{	
1	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike MS	Amount MSD	MS	MSD	ДVД	% RPD	QC L1 RPD	MITS REC.
71001100	ue/ke ue/ke	322 1200	3443 3530	3322 3233	4327 4327	4309 4309	72 54	70 47 *	71 51	3	16.0	49~131 48~154

Client Sample ID: SBLK

Matrix Spike Blank

Lab Sample ID: A5B0334302

A5B0334301

·		Concent	ration	<i>'</i>		
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS	
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM Acenaphthene Pyrene	ug/kg ug/kg	2754 2803	3277 3277	84 86	49-131 48-154	

Client Sample ID: SBLK
Lab Sample ID: A5B0334503

Matrix Spike Blank A5B0334501 Matrix Spike Blk Dup A5B0334502

Concentration % Recovery Units of Spike Amount X QC LIMITS Measure Spike Blank Spike Blank Dup RPD RPD REC. SB SB Analyte SBD SBD Avg DELTA - METHOD 8270-HSL POLYNUCLEAR AROM UG/L 90.3 46-121 Acenaphthene 84.0 100 100 90 87 7 23.0 84 UG/L 86.5 2 25.0 53-142 Pyrene 84.5 100 100 86 84 85

Client Sample ID: Method Blank

Matrix Spike Blank

Lab Sample ID: A5B0337302

A5B0337301

Analyte	Units of Measure	Concent Blank Spike	Spike	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI Aroclor 1254	ug/kg	156	162	97	52-153

Client Sample ID: Method Blank

Matrix Spike Blank

Lab Sample ID: A580337802

A5B0337801

	1	Concent	1		
Analyte	Units of Measure	Blank Spike	Spike Anount	% Recovery Blank Spike	QC LIMITS
DELTA – METHOD 8082 – POLYCHLORINATED BI Aroclor 1260 Aroclor 1016	UG/L UG/L	4.59 4.49	5.00 5.00	92 90	50-122 29-123

Client Sample ID: GSB-6 (4-8) Lab Sample ID: A5226001 GSB-6 (4-8) A5226001MS 658-6 (4-8) A5226001SD

	,		Conce	entration			X F	ecover)	, 1			
Units of Reasure	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike A MS (Mount MSD	MS	MSD	Avg	Avg RPD	QC LI	IMITS REC.
OTAL RCRA METALS TOTAL ARSENIC	MG/KG	74 10	F3 00	70.70	2/ 74	24.05				447 4		
TOTAL BARIUM	MG/KG	76.19 304.2	52.99	70.20	26.31	26.05					20.0	80-
TOTAL CADMIUM	MG/KG	2.19	173.3 19.49	270.2	26.31	26.05	-498 * 66 *		-314 62	117 * 13	20.0	
TOTAL CHROMIUM	MG/KG	39.13	44.90	17.36 90.41	26.31 26.31	26.05 26.05	22 *	197 *	110		20.0	
TOTAL LEAD	MG/KG	863.0	577.1	1105	26.31	26.05	-999 *	931 *		2540 *	20.0	
TOTAL MERCURY	MG/KG	3.47	4,21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	
TOTAL SELENIUM	MG/KG	68.78	36.67	50.26	26.31	26.05	-122 *	-71 *		53 *	20.0	
TOTAL SILVER	Me/ke	0.624	5.14	4.71	6.57	6.51	69 *	63 *	66	9	20.0	,

Rept: ANO364

Client Sample ID: GSB-7 Lab Sample ID: A5226008 GSB-7 A5226008MS GSB-7 A5226008SD

	1 1		Conce	entration		j	% R	ecovery	• [ĺ	
4lyta	Units of Measure	Sample	Matrix Spike	Spike Duplicate	Spike /	Amount MSD	MS	MSD	Avg	% RPD	QC LI RPD	IMITS REC.
Analyte	i i cusur e	Sump te	Hattix Spike	apike bupticate	ri3	1130		7100	7,1		1 1	
DELTA - RCRA METALS - W	[,			1			[
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10		75-1
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1_81	0.200	0,200	102	63 *	83	47 *	20.0	80-1
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *	74	4	20.0	80-1
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-1
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-1
DELTA - TOTAL MERCURY - W	MG/L	. 0.0166	0.0210	0.0212	0.00666	0.00666	66 *	69 *	68	4	20.0	80-1
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-1
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-1
	l l	ļ				į			l 1		1	

Client Sample ID: Method Blank Lab Sample ID: A5B0334602

LCS CLP Soils A5B0334601

	[[Concentr	Ţ	ļ.	
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS					
TOTAL ARSENIC	MG/KG	276.4	300.0	92	80-120
TOTAL BARIUM	MG/KG	267.6	297.0	90	80-120
TOTAL CADMIUM	MG/KG	83.13	93.70	89	80-120
TOTAL CHROMIUM	MG/KG	95.46	105.0	91	80-120
TOTAL LEAD	MG/KG	98.19	105.0	93	80-120
TOTAL SELENIUM	MG/KG	79.89	82.80	96	80-120
TOTAL SILVER	MG/KG	89.67	93.20	96	80-120

Client Sample ID: Method Blank Lab Sample ID: A5B0334702 LFB A5B0334701

		Concentra	[
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W					
DELTA - TOTAL ARSENIC - W	MG/L	0.211	0.200	106	80-12
DELTA - TOTAL BARIUM - W	MG/L	0.196	0.200	98	80-12
DELTA - TOTAL CADMIUM - W	MG/L	0.205	0.200	103	80-12
DELTA - TOTAL CHROMIUM - W	MG/L	0.202	0.200	101	80-12
DELTA - TOTAL LEAD - W	MG/L	0.214	0.200	107	80-12
DELTA - TOTAL SELENIUM - W	MG/L	0.204	0.200	102	80-12
DELTA - TOTAL SILVER - W	MG/L	0.0500	0.0500	100	80-12

Client Sample ID: Method Blank

Lab Sample ID: A5B0339202

LCS A580339201

Analyte	Units of Measure	Concenti Blank Spike	Spike	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W DELTA - TOTAL MERCURY - W	MG/L	0.00350	0.00333	105	80-120

Client Sample ID: Method Blank Lab Sample ID: A5B0347802 LCS

A5B0347801

		Concentr	ation		
Analyte	Units of Measure	Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	1.94	1.80	108	80-120

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID	GSB-1	G\$B-1 (12-16)	GSB-10 (16-20)	6SB-3	GSB-3 (16-20)
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226012	A05-2260 A5226005
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/16/2005 19:23 YES SOIL LOW 1.0 5.07 GRAMS 81.54	03/10/2005 17:00 03/12/2005 12:15 03/17/2005 18:14 - YES SOIL LOW 1.0 5.09 GRAMS 82.46	NA	03/09/2005 14:00 03/12/2005 12:15 03/17/2005 17:42 - YES SOIL LOW 1.0 5.13 GRAMS 81.02

Client Sample ID		GSB-1 (12-16)	GSB-10 (16-20)	GSB-3	GSB-3 (16-20)
Job No & Lab Sample ID		A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226012	A05-2260 A5226005
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:55 03/12/2005 12:15 03/17/2005 04:44 - YES WATER 1.0 0.025 LITERS	NA	NA	03/11/2005 10:15 03/12/2005 12:15 03/17/2005 05:16 	NA

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID		6SB-6	GSB-6 (4-8)	6SB-7	GSB-7 (12-16)
Job No & Lab Sample ID		A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226008	A05-2260 A5226004
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix pilution Factor Sample wt/vol % Dry	NA	NA	03/10/2005 08:20 03/12/2005 12:15 03/16/2005 19:04 	NA	03/10/2005 15:00 03/12/2005 12:15 03/16/2005 23:35

Client Sample ID	l	GSB-6	GSB-6 (4-8)	GSB-7	GSB-7 (12-16)
Job No & Lab Sample ID		A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226008	A05-2260 A5226004
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:35 03/12/2005 12:15 03/17/2005 04:11 - YES WATER 1.0 0.025 LITERS	03/11/2005 09:15 03/12/2005 12:15 03/17/2005 03:39 YES WATER 1.0 0.025 LITERS	NA	03/11/2005 08:50 03/12/2005 12:15 03/17/2005 03:07 - YES WATER 1.0 0.025 LITERS	NA

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) A05-2260 A5226003	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 16:10 03/12/2005 12:15 03/16/2005 19:41 - YES SOIL LOW 1.0 5.0 GRAMS 81.84	

Client Sample ID GSB-9 Job No & Lab Sample ID A05-2		GSB-9 (4-8) A05-2260 A5226003		
eceived Date Extraction Date	03/11/2005 08:25 03/12/2005 12:15 03/17/2005 02:35 	NA NA		

Date: 03/24/2005 Time: 16:20:13

DELTA ENVIRONMENTAL CONSULTANTS, INC.

QC SAMPLE CHRONOLOGY

Rept: ANG374 Page: 4

Client Sample ID Job No & Lab Sample ID		•			
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 03/12/2005 12:15 03/17/2005 05:49 YES WATER 1.0 0.025 LITERS				

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID	MSB75	MSB83	MSB84	
Job No & Lab Sample ID	A05-2260 A5B0354701	A05-2260 A5B0352901	A05-2260 A5B0358701	
Sample Date Received Date Rextraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/16/2005 15:55 	03/17/2005 15:33 - - SOIL LOW 1.0 5.0 GRAMS 100.00	

Client Sample ID Job No & Lab Sample ID		MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701		
Sample Date Received Date Extraction Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/17/2005 02:02 - - - WATER 1.0 0.025 LITERS	NA ,	NA		

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID		VBLK82 A05-2260 A5B0352902	VBLK83 A05-2260 A580352903	VBLK84 A05-2260 A5B0358702	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/16/2005 16:31 - - SOIL LOW 1.0 5.0 GRAMS 100.00	03/16/2005 16:13 - - SOIL LOW 1.0 5.0 GRAMS 100.00	03/17/2005 16:05 SOIL LOW 1.0 5.0 GRAMS 100.00	•

Client Sample ID Job No & Lab Sample ID		VBLK82 A05-2260 A580352902	VBLK83 A05-2260 A5B0352903	VBLK84 A05-2260 A5B0358702	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/17/2005 00:57 WATER 1.0 0.025 LITERS	NA	NA	NA	

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-1 (12-16) RI	GSB-10 (16-20)	GSB-3
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	AO5-2260 A5226002RI	A05-2260 A5226006	A05-2260 A5226012
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:01 YES YES SOIL LOW 10.0 30.12 GRAMS 81.73	03/09/2005 12:40 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 11:37 YES YES SOIL LOW 5.0 30.12 GRAMS 81.73	03/10/2005 17:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 21:43 YES YES SOIL LOW 10.0 30.05 GRAMS 82.57	NA

Client Sample ID		GSB-1 (12-16)	6SB-1 (12-16) RI	GSB-10 (16-20)	6SB-3
Job No & Lab Sample ID		A05-2260 A5226002	AO5-2260 A5226002RI	A05-2260 A5226006	A05-2260 A5226012
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 09:55 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 00:40 YES YES WATER 1.0	NA	NA	NA	03/11/2005 10:15 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 01:06 YES YES WATER 1.0 0.86 LITERS

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-3 (16-20)	GSB-5	GSB-6	GSB-6 (4-8)	GSB-6 (4-8) DL
Job No & Lab Sample ID	A05-2260 A5226005	A05-2260 A5226010	A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226001DL
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/09/2005 14:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 21:18 YES YES SOIL LOW 1.0 30.83 GRAMS 78.05	, NA	NA	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 18:45 YES YES YES SOIL LOW 1.0 30.22 GRAMS 75.86	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 13:43 YES YES SOIL LOW 5.0 30.22 GRAMS 75.86

· · · · · · · · · · · · · · · · · · ·	GSB-3 (16-20)	6SB-5	GSB-6	6SB-6 (4-8)	GSB-6 (4-8) DL
	A05-2260 A5226005	A05-2260 A5226010	A05-2260 A5226009	A05-2260 A5226001	A05-2260 A5226001DL
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/11/2005 09:35 03/12/2005 12:15 03/14/2005 07:00 03/16/2005 00:15 YES YES WATER 1.0 1.045 LITERS	03/11/2005 09:15 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 23:50 YES YES WATER 1.0 0.94 LITERS	NA .	NA

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID	GSB-7	6SB-7 (12-16)	GSB-7 (12-16) RI	GSB-9 (4-8)	GSB-9 (4-8) RI
Job No & Lab Sample ID	A05-2260 A5226008	A05-2260 A5226004	AO5-2260 A5226004RI	A05-2260 A5226003	A05-2260 A5226003RI
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/10/2005 15:00 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:52 YES YES SOIL LOW 10.0 30.3 GRAMS 78.41	03/10/2005 15:00 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 12:27 YES YES SOIL LOW 1.0 30.3 GRAMS 78.41	03/09/2005 16:10 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 20:27 YES YES SOIL LOW 10.0 30.2 GRAMS 77.23	03/09/2005 16:10 03/12/2005 12:15 03/14/2005 07:00 03/17/2005 12:02 YES YES SOIL LOW 1.0 30.2 GRAMS 77.23

Client Sample ID	F .	GSB-7 (12-16)	GSB-7 (12-16) RI	6\$B-9 (4-8)	GSB-9 (4-8) RI
Job No & Lab Sample ID		A05-2260 A5226004	A05-2260 A5226004RI	A05-2260 A5226003	A05-2260 A5226003RI
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/11/2005 08:50 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 23:24 YES YES WATER 1.0 1.0 LITERS	NA	NA	NA	NA

DELTA ENVIRONMENTAL CONSULTANTS, INC. QC SAMPLE CHRONOLOGY

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DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID		GSB-6 (4-8)	Matrix Spike Blank	Matrix Spike Blank	Matrix Spike Blk Dup
Job No & Lab Sample ID		A05-2260 A5226001SD	A05-2260 A5B0334301	A05-2260 A5B0334501	A05-2260 A5B0334502
Sample Date Received Date Extraction Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 19:10 YES YES SOIL LOW 1.0 30.46 GRAMS 75.86	03/10/2005 08:20 03/12/2005 12:15 03/14/2005 07:00 03/15/2005 19:36 YES YES SOIL LOW 1.0 30.59 GRAMS 75.86	03/14/2005 07:00 03/15/2005 17:54 - SOIL LOW 1.0 30.51 GRAMS	NA	NA

Client Sample ID		6SB-6 (4-8)	Matrix Spike Blank	Matrix Spike Blank	Matrix Spike Blk Dup
Job No & Lab Sample ID		A05-2260 A5226001SD	A05-2260 A580334301	A05-2260 A5B0334501	A05-2260 A5B0334502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol	NA	NA	NA	03/14/2005 07:00 03/15/2005 22:08 - - WATER 1.0 1.0 LITERS	03/14/2005 07:00 03/15/2005 22:34 WATER 1.0 1.0 LITERS

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID		SBLK A05-2260 A5B0334503		
Sample Date Received Date Extraction Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/14/2005 07:00 03/15/2005 18:19 - - SOIL LOW 1.0 30.68 GRAMS 100.00	NA		

Client Sample ID Job No & Lab Sample ID		SBLK A05-2260 A5B0334503		
Sample Date Received Date Recraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/14/2005 07:00 03/15/2005 22:59 - - - WATER 1.0 1.0 LITERS		

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID	65B-1	6SB-1 (12-16)	GSB-10 (16-20)	6SB-3 (16-20)	GSB-5
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226005	A05-2260 A5226010
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol X Dry	NA	03/09/2005 12:40 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:00 YES YES SOIL LOW 1.0 30.87 GRAMS 81.73	03/10/2005 17:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 12:19 YES YES SOIL LOW 1.0 30.06 GRAMS 82.57	03/09/2005 14:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 12:00 YES YES SOIL LOW 1.0 30.28 GRAMS 78.05	NA -

Client Sample ID	GSB-1	GSB-1 (12-16)	GSB-10 (16-20)	GSB-3 (16-20)	GSB-5
Job No & Lab Sample ID	A05-2260 A5226011	A05-2260 A5226002	A05-2260 A5226006	A05-2260 A5226005	A05-2260 A5226010
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol	03/11/2005 09:55 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:40 YES YES WATER 1.0 1.05 LITERS	NA	NA	NA	03/11/2005 09:35 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:23 YES YES WATER 1.0 1.02 LITERS

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID	GSB-6 (4-8)	6SB-7	GSB-7 (12-16)	GSB-9 (4-8)	
Job No & Lab Sample ID	A05-2260 A5226001	A05-2260 A5226008	A05-2260 A5226004	A05-2260 A5226003	
Sample Date Received Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/10/2005 08:20 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:41 YES YES SOIL LOW 1.0 30.16 GRAMS 75.86	NA	03/10/2005 15:00 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:40 YES YES SOIL LOW 1.0 30.23 GRAMS 78.41	03/09/2005 16:10 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 11:20 YES YES SOIL LOW 20.0 30.24 GRAMS 77.23	

Client Sample ID Job No & Lab Sample ID		GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	6SB-9 (4-8) A05-2260 A5226003	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/11/2005 08:50 03/12/2005 12:15 03/15/2005 07:00 03/16/2005 10:05 YES YES YES WATER 1.0 1.0 LITERS	NA NA	NA ·	

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DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID		Matrix Spike Blank A05-2260 A5B0337801		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/15/2005 07:00 03/16/2005 10:01 SOIL LOW 1.0 30.85 GRAMS	NA .		

Client Sample ID Job No & Lab Sample ID	A05-2260 A5B0337301	Matrix Spike Blank A05-2260 A5B0337801	·	
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/15/2005 07:00 03/16/2005 09:29 - - - WATER 1.0 1.0 LITERS		

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID		Method Blank A05-2260 A5B0337802		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	03/15/2005 07:00 03/16/2005 10:21 - - SOIL LOW 1.0 30.79 GRAMS	NA		

Client Sample ID Job No & Lab Sample ID		Method Blank A05-2260 A5B0337802		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	03/15/2005 07:00 03/16/2005 09:47 - - - WATER 1.0 1.0 LITERS		

Date: 03/24/2005 16:20:25 Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

Rept: ANO369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	тнт	Analysis Date	АНТ	Matrix
A5226011	GSB-1	MG/L	Arsenic - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
	1	MG/L	Barium - Total	6010		03/11/2005 09:55		NA	NA	03/15 04:24	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA.	NA	03/15 04:24	Yes	WATER
	!	MG/L	Chromium - Total	6010		03/11/2005 09:55		NA	NA	03/15 04:24		
	i	MG/L	Lead - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Mercury - Total	7470	10.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 12:15	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA NA	NA	03/15 04:24	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA NA	NA	03/15 04:24	Yes	WATER
A5226002	GSB-1 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Lead - Total	6010		03/09/2005 12:40		NA NA	NA	03/15 05:07		
		MG/KG	Mercury - Total	7471		03/09/2005 12:40		NA '	NA	03/16 16:33	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Silver - Total	6010		03/09/2005 12:40		NA NA	NA	03/15 05:07		
A5226006	GSB-10 (16-20)	MG/KG	Arsenic - Total	6010		03/10/2005 17:00		NA NA	NA	03/15 05:36	Yes	SOIL
	ĺ	MG/KG	Barium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA.	NA	03/15 05:36	Yes	SOIL
	İ	MG/KG	Cadmium - Total .	6010	1.00) NA	NA	03/15 05:36	Yes	SOIL
	1	MG/KG	Chromium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 17:00			NA	03/15 05:36	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	0 03/10/2005 17:00	03/12 12:15	NA NA	NA	03/16 16:37		
ļ		MG/KG	Selenium - Total	6010	1.00	0 03/10/2005 17:00	03/12 12:15	NA NA	NA	03/15 05:36		
i	İ	MG/KG	Silver - Total	6010	1.00	0 03/10/2005 17:00	03/12 12:15	NA NA	NA	03/15 05:36		
A5226005	GSB-3 (16-20)	MG/KG	Arsenic - Total	6010		0 03/09/2005 14:00			NA	03/15 05:20		
		MG/KG	Barium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA NA	NA	03/15 05:20		
	1	MG/KG	Cadmium - Total	6010	1.00	0 03/09/2005 14:00	03/12 12:15	NA.	NA	03/15 05:20		
	i	MG/KG	Chromium - Total	6010	1.00	0 03/09/2005 14:00	03/12 12:15	NA NA	NA	03/15 05:20		
	1	MG/KG	Lead - Total	6010	1.00	0 03/09/2005 14:00	03/12 12:15	NA NA	NA	03/15 05:20		
		MG/KG	Mercury - Total	7471	1.00	0 03/09/2005 14:00	03/12 12:15	NA.	NA	03/16 16:36		
1	1	MG/KG	Selenium - Total	6010	1.00	0 03/09/2005 14: 0 0	03/12 12:15	NA NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	0 03/09/2005 14:00	03/12 12:15	NA NA	NA	03/15 05:20		
A5226010	GSB-5	NG/L	Arsenic - Total	6010	1.00	0 03/11/2005 09:35	03/12 12:15	NA NA	NA	03/15 04:20		
\$	}	MG/L	Barium - Total	6010	1.00	0 03/11/2005 09:35	03/12 12:15	NA NA	NA	1 - 7 - 1 - 1 - 1 - 1		
1	1	MG/L	Cadmium - Total	6010	1.00	0 03/11/2005 09:35	03/12 12:15	NA NA	NA	03/15 04:20		
	į	MG/L	Chromium - Total	6010		0 03/11/2005 09:35			NA	03/15 04:20	Yes	WATER
ļ		MG/L	Lead - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA NA	NA			
-		MG/L	Mercury - Total	7470	1.00	0 03/11/2005 09:35	03/12 12:15	NA NA	NA	03/15 12:13	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	0 03/11/2005 09:35	03/12 12:15	NA NA	NA	03/15 04:20	Yes	WATER
1		MG/L	Silver - Total	6010	1.00	0 03/11/2005 09:35	03/12 12:15	i NA	NA			
A5226001	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	0 03/10/2005 08:20	0 03/12 12:15	NA NA	NA			
		MG/KG	Barium - Total	6010	1.00	0 03/10/2005 08:20	03/12 12:15	i NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Cadmium - Total	6010		0 03/10/2005 08:20			NA		Yes	SOIL
1	1	MG/KG	Chromium - Total	6010	1.00	0 03/10/2005 08:20	03/12 12:15		NA		Yes	s 501 l e
1	1	MG/KG	Lead - Total	6010		0 03/10/2005 08:20			NA		Yes	SOILO
1	1	MG/KG	Mercury - Total	7471		0 03/10/2005 08:20			NA			
1		MG/KG	Selenium - Total	6010	1.00	0 03/10/2005 08:20	0 03/12 12:19	NA NA	NA			
1		MG/KG	Silver - Total	6010	1.00	0 03/10/2005 08:20) 03/12 12:1!	5 NA	NA	03/15 04:49	₹ Ye:	s SOIL

DELTA ENVIRONMENTAL CONSULTANTS, INC. SAMPLE CHRONOLOGY

Jobno: A05-2260

Lab ID	Sample ID	Units	Analyte	Me thod	Dilution Factor	Sample Date	Receive Date	TCLP Date	тнт	Analysis Date	ТНА	Matri)
A5226008	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA		03/15 04:02		
İ		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
1	1		Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Chromium - Total	6010		03/11/2005 08:50			NA	03/15 04:02	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:02	Yes	WATER
1		MG/L	Mercury - Total	7470	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 12:08	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:02	Yes	WATER
	ł	MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:02	Yes	WATER
A5226004	GSB-7 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA	NA	03/15 05:15	Yes	SOIL
i	ŀ	MG/KG	Barium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA		03/15 05:15		
	•	MG/KG	Chromium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA		03/15 05:15		
	1	MG/KG	Lead - Total	6010	1.00	03/10/2005 15:00	03/12 12:15		NA	03/15 05:15	Yes	SOIL
1		MG/KG	Mercury ~ Total	7471	1.00	03/10/2005 15:00	03/12 12:15	NA NA		03/16 16:35		
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA	NA	03/15 05:15	Yes	SOIL
		M6/K6	Silver - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA NA		03/15 05:15		
A5226003	GSB-9 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	i) NA		03/15 05:11		
		MG/KG	Barium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA NA		03/15 05:11		
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	i NA		03/15 05:11		
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 16:10	03/12 12:15	NA NA	NA	03/16 16:34		
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA NA	NA	03/15 05:11		
		MG/KG	Silver - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	5 NA	NA	03/15 05:11	Yes	SOIL

Date: 03/24/2005 16:20:25 Johno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC. QC CHRONOLOGY

Rept: ANO369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	тнт	Analysis Date	АНТ	Matrix
45226001MS	6SB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Barium - Total	6010		03/10/2005 08:20		NA	NA	03/15 04:58		
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Chromium - Total	6010		03/10/2005 08:20		NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58		
		MG/KG	Mercury - Total	7471		03/10/2005 08:20		NA	NA	03/16 16:30	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/15 04:58	Yes	SOIL
A5226001SD	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NΑ	03/15 05:02	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/15 05:02		
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA.	NA	03/15 05:02	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/15 05:02	Yes	SOIL
i		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA NA	NA	03/16 16:31	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Silver - Total	6010		03/10/2005 08:20			NA	03/15 05:02		
A5226008MS	6SB-7	MG/L	Arsenic - Total	6010		03/11/2005 08:50			NA	03/15 04:11	Yes	WATER
	\	MG/L	Barium - Total	6010		03/11/2005 08:50			NA	03/15 04:11		
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:11	Yes	; WATER
		MG/L	Chromium - Total	6010		03/11/2005 08:50			NA	03/15 04:11		
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:11	Yes	WATER
		MG/L	Mercury - Total	7470	5.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 12:10		
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:11		
		MG/L	Silver - Total	6010		03/11/2005 08:50			NA	03/15 04:11		
A5226008SD	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA NA	NA	03/15 04:15	Yes	WATER
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NA = Not Applicable

Date: 03/24/2005 16:20:25 Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.

QC CHRONOLOGY

Rept: ANO365

TCLP **Analysis** Dilution Sample Receive Lab ID Sample ID Units Analyte THT Method Date Date Date AHT Matrix Factor Date A580339201 LCS MG/L Mercury - Total 03/15 12:24 Yes WATER 7470 1.00 - 12:15 NA A5B0347801 LCS MG/KG Mercury - Total 7471 03/16 16:59 Yes SOIL 1.00 - 12:15 NA MG/KG A5B0334601 LCS CLP Soils 03/15 04:44 Yes SOIL Arsenic - Total 6010 1.00 - 12:15 NA MG/KG Barium - Total 6010 - 12:15 03/15 04:44 Yes SOIL 1.00 NΑ NA MG/KG Cadmium - Total 03/15 04:44 Yes SOIL 6010 1.00 - 12:15 NA NA MG/KG Chromium - Total 03/15 04:44 Yes SOIL 6010 1.00 - 12:15 NA NA MG/KG Lead - Total 03/15 04:44 Yes SOIL 6010 - 12:15 1.00 NA MG/KG Selenium - Total 6010 1.00 - 12:15 NA NA. 03/15 04:44 Yes SOIL MG/KG Silver - Total 6010 1.00 - 12:15 NΑ NA 03/15 04:44 Yes SOIL A5B0334701 LFB MG/L Arsenic - Total 6010 NA 03/15 03:58 Yes WATER 1.00 - 12:15 NA MG/L Barium - Total 6010 03/15 03:58 Yes WATER 1.00 - 12:15 NΑ NA MG/L Cadmium - Total 03/15 03:58 Yes WATER 6010 - 12:15 NA NA 1.00 MG/L Chromium - Total 6010 03/15 03:58 Yes WATER 1.00 - 12:15 NA MG/L Lead - Total 03/15 03:58 Yes WATER 6010 - 12:15 NA 1.00 MG/L Selenium - Total 6010 03/15 03:58 Yes WATER 1.00 - 12:15 NA NA MG/L Silver - Total 6010 - 12:15 NA 03/15 03:58 Yes WATER 1.00

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BINGHAMTON PLAZA, INC.

ATTACHMENT 2 FIELD ACTIVITIES AND ANALYSIS PLAN 33 WEST STATE STREET BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc. 30 Galesi Drive, Suite 301 Wayne, New Jersey 07470

Prepared by:

Delta Environmental Consultants, Inc. 104 Jamesville Road Syracuse, NY 13214

Delta Project No. 0504001P



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Appendix A: General Sampling Procedures for Field Investigation

1.0 INTRODUCTION

This document represents the Field Activities and Analysis Plan (FAAP), which is Attachment 2 of the Site Investigation Work Plan for the Binghamton Plaza, Inc. site located at 33 West State Street, Binghamton, New York (the "Site"). This FAAP describes the sampling program and procedures to be followed during all sample collection and handling tasks and other investigative tasks associated with this project.

2.0 SAMPLING ACTIVITIES AND PROCEDURES

As part of the Site Investigation field tasks, soil, groundwater, sediment, surface water, and air samples will be collected and analyzed to determine the nature and extent of any potentially impacted environmental media at the site. Detailed field sampling procedures, proposed sampling locations, and analyses are described in the following sections of this FAAP, with additional detail provided in Appendix A of this FAAP. A detailed summary outlining the sampling program is presented in the accompanying Quality Assurance Project Plan (QAPP) on Table 6-1 of that document (See Attachment 3).

2.1 ANALYTICAL PROCEDURES

Remedial activities will include soil, groundwater, sediment, surface water, and air sample collection. Analyses for all media, except air, will include:

- volatile organic compounds (VOCs);
- semi-volatile organic compounds (SVOCs):
- metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium);
- and polychlorinated biphenyls (PCBs).

In addition, groundwater water samples will be analyzed for NYSDEC Part 360 Routine Parameters (as specified in 6 NYCRR Part 360, Subpart 360-2.11). Air samples will be analyzed for VOCs only.

In general, and where applicable (i.e., where ASP standards exist and are applicable) laboratory analytical procedures for soil, groundwater, sediment, and surface water will adhere to USEPA Standard Methods 8260 (VOCs), 8270 (SVOCs), 8082 (PCBs), and for metals the following SW-846 methods (as recommended in 6 NYCRR Part 360, subpart 360-2.11): 6010/7060/7061 (arsenic), 6010 (barium), 7140/6010/7190 (chromium),

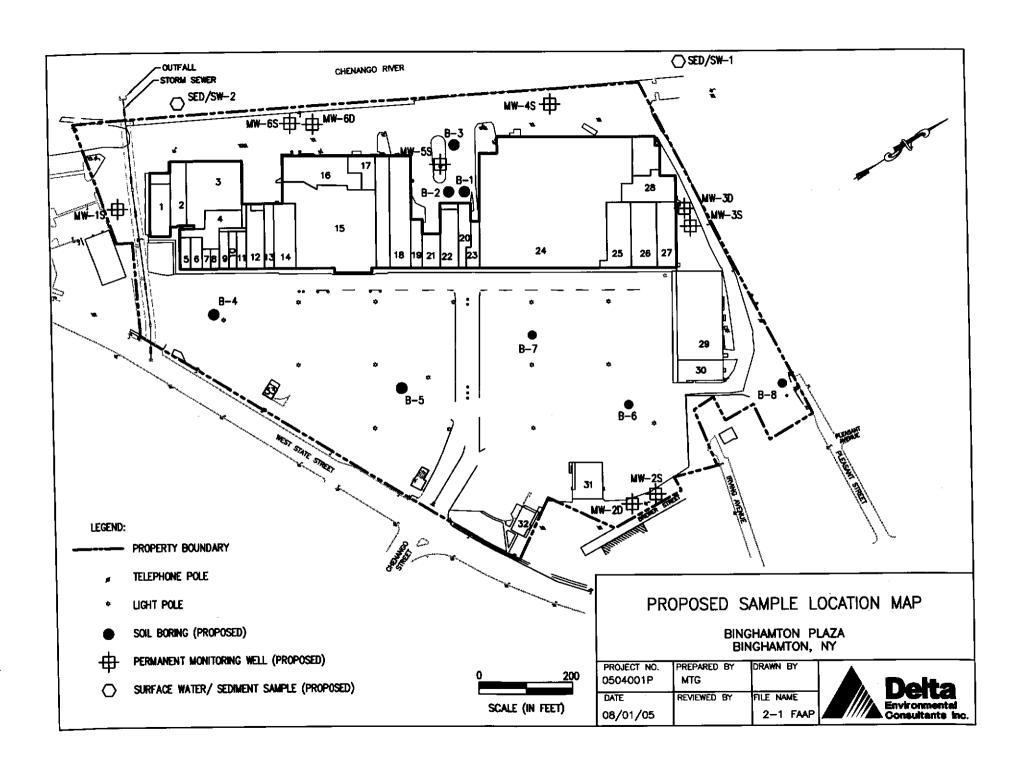
7461/7470 (mercury), 6010/7740/7741 (selenium), 6010/7460/7461 (silver), 3010/7130 (cadmium), 7131 (calcium), 7140/7380 (iron), 7381/6010/7420 (lead), 7421 (magnesium), 7450/7460 (manganese), 7461 (potassium), and 7610/7770 (sodium). Air sampling analytical procedures will adhere to USEPA TO-15 methodologies in accordance with NYSDOH certifications and standards.

All soil, groundwater, sediment, and surface water samples collected during the Site Investigation will be analyzed by a NYSDOH ELAP certified analytical laboratory that participates in the Contract Laboratory Program (CLP). Laboratory analytical procedures will adhere to NYS Analytical Services Protocol (ASP) 2000 methodologies and protocols. All air samples will be analyzed by STL of Burlington, VT, a laboratory certified by NYSDOH for TO-15 analyses.

Note: The analytical laboratory for the soil, groundwater, surface water, and sediment analyses will be selected prior to the start of field activities.

2.2 SOIL BORINGS

A total of 17 soil borings will be advanced across the site as part of this Site Investigation (Figure 2-1). Eight of these soil borings (i.e., B-1 to B-8) will be advanced across the site for subsurface soil sample collection purposes. The remaining nine soil borings (i.e., MW-1S, MW-2S/D, MW-3S/D, MW-4S, MW-5S and MW-6S/D) will also be advanced for soil sample collection purposes and will be converted into groundwater monitoring wells as discussed in Section 2.3. The drilling method will be selected based on expediency and on the nature of the soils encountered. Based on Delta's observations during the March 2005 site investigation work, it is estimated that hollow stem auger drilling methods will be required at the majority of the boring locations at deeper depths due to premature refusals encountered with the direct push drilling methods. However, direct push drilling methods will be utilized wherever possible to expedite the drilling



program. Soil cores will be collected continuously from grade to the maximum depth of each boring regardless of the drilling technique employed.

Geoprobe equipment (or equivalent) will be used to initiate the soil borings (i.e., B-1 through B-8) using direct push sampling techniques and Macro-Core™ samplers (or equivalent) having a minimum inside diameter (ID) of 1.9 inches (Figure 2-1). Direct push techniques will be utilized at each of these boring locations until refusal is encountered, or until the maximum designed depth of the boring is reached, whichever is less. If refusal is encountered prior to reaching the desired depth based on the objectives of the Work Plan, hollow stem auger drilling techniques will be implemented to continue the soil boring from the depth of direct push refusal to the final depth of the borehole. Continuous split-spoon samplers will be utilized during the hollow stem auger drilling in lieu of the Macro-Core samplers used during the direct push drilling activities.

Upon extraction from the borehole, a geologist will log each soil core. Soil type, color, moisture, staining and any other pertinent observations will be recorded on a boring log. Each soil core will be sectioned and soils from each respective sampling interval will be placed in a sealed sampling container. Throughout this process, samples will be carefully handled to minimize the potential for loss of volatiles. The headspace of the sampling container will be then be scanned with a Photoionization Detector (PID) to evaluate the possible presence of VOCs in the sample. Sampling intervals for laboratory analysis will subsequently be selected and jarred into clean laboratory supplied containers as described further in Section 2.2.1 below.

Upon completion, each boring will be backfilled with bentonite hole-plug or a concrete grout. All generated wastes (soil cuttings and disposable sampling tubes) will be staged and properly secured onsite pending proper management.

2.2.1 Screening Criteria for Soil Sample Selection

Following collection and logging, soil samples from each sampling interval of a soil boring will be placed and sealed in a labeled sampling container. The sample will then be allowed to equilibrate for a minimum of ten minutes and then a PID will be used to measure the concentration of VOC vapors in the headspace of the container. Based on the PID readings, the sample interval typically having the highest PID reading (i.e., the "worst-case" sample) will be selected for laboratory analysis. However, other criteria such as evidence of staining, odors, sample depth and/or the history of an area will also be factored into the selection of samples. The actual number of soil samples to be collected is discussed in Section 4.1.2 of the Site Investigation Work Plan as well as on Table 6-1 of the QAPP presented as Attachment 3 of the Work Plan. These samples will be analyzed per the laboratory analytical requirements specified in Section 2.1 above.

As described in the Work Plan, at approximately three boring locations (to be field selected), an additional soil sample will be collected from natural undisturbed soils underlying the landfill wastes beneath the site to assist with vertical delineation of the COCs at the site. These three samples will not be selected as "worst-case" samples, but rather will be selected to evaluate the soil quality of the natural soils immediately underlying the landfill waste deposits, including the "silt" layer as described in the Work Plan.

All soil samples will be analyzed for VOCs, SVOCs, metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs, as noted in Section 2.1 above.

2.3 MONITORING WELL INSTALLATION

A total of nine monitoring wells, six shallow (MW-1S through MW-6S) and three deep (MW-2D, 3D and 6D), will be installed at the site to depths of approximately 25 feet below grade, and 50 feet below grade respectively. Drilling methods used to install the

monitoring wells will consist of 4.25-inch inside diameter (ID) hollow-stem auger (HSA) drilling techniques in the case of the shallow monitoring wells, and a combination of 6-1/4-inch ID HSA drilling techniques and 3-7/8-inch ID fluid rotary techniques for the deep monitoring wells. Estimated monitoring well locations are shown on Figure 2-1.

During drilling activities, auger cuttings will be logged by a geologist and field screened with a PID to monitor for the potential presence of VOC vapors. Continuous split-spoon soil samples will be collected during all monitoring well installation activities, with the exception of well pair locations (i.e., where both a shallow and deep monitoring well are proposed at the same location), in which case split spoon samples will not be collected at the shallow monitoring well location. Soil samples for laboratory analysis from these borings will be selected as described in Section 2.2.1 above. The actual number of soil samples to be collected is discussed in Section 4.1.2 of the Site Investigation Work Plan as well as on Table 6-1 of the QAPP presented as Attachment 3 of the Work Plan. These samples will be analyzed per the laboratory analytical requirements specified in Section 2.1 above.

Each monitoring well will be constructed of two-inch-diameter PVC riser and ten feet of 0.01-inch slotted PVC well screen. In the case of the shallow monitoring wells, the well screen will be installed to straddle the estimated shallow water table, if present, above the "silt" layer. At the deep monitoring well locations, four-inch diameter steel casing will initially be installed to a depth of approximately 30 to 35 feet below grade, with the objective of sealing off any vertically restrictive layers (i.e., the silt layer), and allowing for the installation of a screen to monitor what is estimated to be a deeper sand and gravel unit immediately underlying the silt layer (i.e., screened interval estimated to be approximately 40 to 50 feet below ground surface).

At both the shallow and deep monitoring well locations, a sand pack will be installed around the well screen and will extend one to two feet above the top of the well screen. A minimum one-foot-thick bentonite pellet seal will be placed above the sand pack and cement/bentonite grout will be utilized to backfill the remainder of the well annulus. All

monitoring wells will be completed with a flush-mounted steel protective curb box.

Following installation, reference points will be marked on the top of each well casing.

All generated wastes (soil cuttings) will be staged on, and covered with, plastic pending proper management.

A summary of monitoring well locations is presented in Section 4.2.1 of the Work Plan. These locations are estimated based on an assumed westerly groundwater flow direction. (Note: locations of monitoring wells may be adjusted in the field due to access considerations).

2.3.1 Monitoring Well Development

Well development will begin no sooner than 24 hours after final completion of each monitoring well. Low-flow development techniques will be used to develop each of the newly installed monitoring wells. Each well will be developed until the turbidity of the water is below 50 NTU, and/or field parameters (pH, conductivity, and temperature) stabilize. Development water from the wells will be checked periodically for the presence of a sheen or free product. Development water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.

2.3.2 Hydraulic Conductivity Testing

Hydraulic conductivity testing (i.e., "slug testing") will be performed at selected monitoring well locations after proper monitoring installation and development has been completed. Hydraulic conductivity testing will be performed on four monitoring wells, two shallow and two deep, the locations of which will be determined after monitoring well installation is complete and the subsurface hydrogeology has been evaluated. Results of the testing will assist in establishing seepage velocities and contaminant transport rates as applicable.

Field testing procedures will consist of rapidly introducing a slug of one-half to one gallon of distilled water into the well, and subsequently monitoring the rate that the water level in the well returns to its static water level. Water level monitoring will be conducted using a 20 pounds per square inch (psi) transducer and an In-Situ Model 1000C data logger, or similarly appropriate technology. Test data will be analyzed using the method of Bouwer and Rice (1976), which is appropriate for determining the hydraulic conductivity of an unconfined aquifer from slug test data.

Modifications to the testing procedures will be made if necessary, upon evaluating the hydrogeologic conditions encountered during monitoring well installation and results of static water level measurements collected from the monitoring wells.

2.4 GROUNDWATER SAMPLING

Groundwater sampling will be conducted no sooner than one week after final development of each monitoring well. Prior to sampling each monitoring well will be purged a minimum of three well volumes. Wells will be purged using either low-flow purging techniques or dedicated disposable bailers. Purge water will be discharged directly to the ground surface, unless there is visible impact. In the event that sheen or free product is present, purge water will be containerized pending proper management.

Following purging, groundwater samples will be collected from each monitoring well with a dedicated disposable polyethylene bailer and rope. Field parameters (pH, temperature, conductivity, and turbidity) and groundwater elevation data will be collected from each monitoring well prior to purging (elevation data) and during sampling (field parameters). Groundwater samples will be analyzed for VOCs, SVOCs, metals (8 RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), PCBs, and NYSDEC Part 360 Routine Parameters as discussed in Section 2.1 above.

2.5 RIVER SAMPLING

To evaluate surface water and sediment quality in Chenango River at locations proximal to the site, Delta will collect two surface water samples and two sediment samples from the eastern river bank at approximate locations shown on Figure 2-1. One location will be established approximately 100 feet upstream from the site (SED/SW-1) and the second location approximately 100 feet downstream of the site, but upstream of the municipal storm water outfall location (SED/SW-2). All sample locations will be situated within the existing water line of the river, approximately one to three feet from shore.

Once the locations are established, a surface water sample will be collected at each location followed by a sediment sample. Sample collection will progress from the downstream location (SED/SW-2) to the upstream location (SED/SW-1).

Surface water samples will be collected at each location by dipping the sample container into the river with the mouth of the container facing upriver. Surface water samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) as discussed above in Section 2.1.

Upon completion of surface water collection, a sediment sample will be collected from each location using hand trowels, dedicated sampling tools, or other suitable device to retrieve sediment from the sample location. The sediment will be transferred to a stainless steel mixing bowl or other suitable mixing tool. Any free liquid will be decanted and visually inspected for any sheen or other evidence of potential contamination. After the liquid is decanted, sample material for VOC analysis will be transferred directly into the sample containers. The remaining sample material will be homogenized and transferred into the remaining sample containers. Sediment samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270),

metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) as discussed above in Section 2.1. A description of each sample and sample location will be prepared, and the location of each surface water/sediment sample location will be marked with stakes to allow for surveying.

2.6 AIR SAMPLING

A number of air samples will be collected to support vapor intrusion analysis in accordance with NYSDOH standards and guidelines, as described in Section 4.4 of the Work Plan. The following describes the general sampling procedures for each air sample collected.

All samples will be collected in 0.4 –liter evacuated canisters over a-12-hour period using SUMMA® canisters in accordance with Section 2.7 (Sampling Protocols) of the VI Guidance Document. Sub-pavement sampling points will be designed in accordance with NYSDOH's recommended sub-slab vapor probe as depicted in Section 27.2 of the VI Guidance Document. In general, collection rates will not exceed 200 ml/minute as specified by NYSDOH.

All samples will be analyzed by Severn Trent Laboratories of Burlington, VT, a NYSDOH-certified laboratory method TO-15, with minimum reporting limits in accordance with NYSDOH standards (typically 1 ug/m³) and sufficiently low to provide a comparison of the analytical results to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the VI Guidance Document. All analyses will include methane and methane-related analytes as appropriate.

2.7 SURVEYING

Upon completion of all field tasks, the horizontal and vertical locations of all soil borings, monitoring wells, and surface water/sediment sampling locations will be surveyed by a New York State (NYS) licensed land surveyor. Vertical elevations will be recorded to the nearest 0.01-foot. Top-of-casing elevations for each monitoring well will also be recorded to the nearest 0.01-foot. All sampling points will be referenced to an onsite fixed datum point.

3.0 DATA EVALUATION

Sampling results will be used to estimate the nature and extent of detected analytes in soil, groundwater, sediment, surface water, and air within the proposed work areas.

3.1 SOIL, GROUNDWATER, SEDIMENT, AND SURFACE WATER SAMPLING DATA

Upon receipt, the analytical data packages will be reviewed for completeness and accuracy. All data will then be validated, and a DUSR will be prepared. Following validation the data will be compared to applicable standards, criteria, and guidance values as follows:

- Soil Data: NYSDEC TAGM 4046 recommended soil cleanup objectives.
- Groundwater Data: NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance values for groundwater. These values are derived from 6 NYCRR Parts 700-705, Water Quality Regulations. Groundwater elevation and flow data will also be reviewed and evaluated.
- Surface Water Data: 6 NYCRR Part 703, Class AA-S Surface Water Standards
- Sediment Data: NYSDEC's Division of Fish, Wildlife and Marine Resources
 Technical Guidance for Screening Contaminated Sediments (updated January 25, 1999).

3.1.1 Vapor Intrusion Monitoring Data

The results of the vapor intrusion monitoring as described above under Section 4.4 will be compared to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York, as applicable.

4.0 DOCUMENTATION PROCEDURES

The contractor will maintain complete documentation of all project activities so that decision processes, actions and results can be recreated as needed. As such, a history of the project will be maintained. Documentation of the activities for various aspects of the project will be accomplished as presented below.

Field Activities

Field Notebook – The contractor will maintain a bound field notebook that will document dates, times and duration of all field activities. The field notebook will be maintained by the Site Manager. All notebook entries will be made in ink on consecutive pages.

Photographs - Photographs will be taken of all significant site activities.

Weekly Reports - The daily field reports will be summarized on weekly report forms that will be supplied to the Project Manager. Copies of the weekly reports will be issued to the NYSDEC representative as part of the monthly report.

Calibration Records - Calibration activities for all field instrumentation will be maintained in the field notebook.

Geologic Logs - Observations pertaining to site geology made during all sub-surface drilling or excavations activities will be recorded in the field notebook.

Safety Forms - Sign-in forms, levels of personal protection, air-monitoring results, incidents reporting forms and other safety-related forms will be maintained in the field notebook, as necessary.

Environmental Sampling

Chain-of-Custody Forms - All sample handling will be recorded on chain-of custody forms and associated labels.

Management Reports

Corrective Action - All corrective action measures will be documented on the appropriate form and noted in the field notebook.

Monthly Reports - Monthly reports will be completed and will include all pertinent forms (e.g., Corrective Action, Incident Reports) in accordance with the applicable BCP regulatory guidance documents. The monthly reports will include, at a minimum, the following information.

- Activities conducted during the reporting period;
- Anticipated activities for the next reporting period;
- Activity modifications;
- Sampling results;
- Project percentage completion;
- Corrective actions; and
- Citizen participation activities.

Final Report

A final Site Investigation report summarizing all site activities will be prepared upon completion of the project. This report will certify that the work was performed in accordance with the Work Plan and Field Activity and Analysis Plans. The final Site Investigation Report will be prepared in accordance with Section 3.10 of the Draft Brownfield Cleanup Program Guide.

APPENDIX A GENERAL SAMPLING PROCEDURES FOR FIELD INVESTIGATION

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GENERAL SAMPLING PROCEDURES

1.0 INTRODUCTION

During the course of the Site Investigation, the applicable procedures listed below will be followed for sample collection:

- Accurate and detailed field notes will be maintained including detailed descriptions of sample collection and handling procedure and sample characteristics.
- Sampling procedures will be performed with the overall intent of collecting representative samples and minimizing sample disturbance.
- Laboratory-supplied sample bottles (pre-preserved as applicable) will be labeled
 with the sample location, identification number, and date and time of sampling
 prior to being filled with sample material.
- All sample collection, handling and shipping information will be recorded in the field notebook, and chain of custody documents as appropriate.

2.0 GENERAL SAMPLE COLLECTION PROCEDURES

All non-dedicated sampling equipment will be suitably cleaned before entry to the site, between sampling locations and intervals, and prior to departure from the site.

- 1. All samples containers will be labeled with: 1) site; 2) project number; 3) sample number; 4) sample interval (for soil samples); 5) date; 6) time of collection; and 7) initials of sampler.
- 2. The sample collector will record descriptions of soil samples regarding 1) soil type; 2) color; 3) odor; 4) moisture content; 5) texture; 6) grain size 7)

consistency; and 8) any other observations, particularly relating to waste materials or unnatural materials. For water samples, the sample collector will describe 1) color; 2) odor; 3) visual turbidity; and 4) any observed phase separation.

- 3. Sample containers will be capped immediately after filling and placed into a chilled-cooler containing sufficient ice or cold packs to cool the media to 4°C for transport to the laboratory.
- 4. All equipment used to collect samples for analysis will be either decontaminated before each use or dedicated to a particular sample location after initial decontamination.

2.1 MATERIALS

The following materials will be available during soil and sediment sampling activities:

- health and safety equipment (PPE, PID, etc.);
- sample retrieval device (trowel, bailers, spoons etc.);
- stainless steel spatulas, bowls and scoops;
- polyethylene sheeting;
- sample containers and chain-of-custody forms;
- transport container with cold source;
- field notebook;
- decontamination supplies; and
- aluminum foil and zip-lock type bags.

3.0 SOIL SAMPLE COLLECTION PROCEDURES

The applicable procedures noted below will be followed during collection of soil samples:

- 1. All-samples will be collected by using dedicated sampling equipment or a trowel or stainless steel spoon. Other equipment used during sampling such as bowls and mixing spoons will likewise be made of stainless steel.
- 2. All-samples will be screened immediately upon sample retrieval with a photoionization detector (PID). Next, samples for volatile analysis will be collected directly from the sampling tool into the appropriate containers in a manner that minimizes headspace. All remaining sample material will then be homogenized using the coning and quartering method. This method includes removing any debris not considered as part of the sample, thoroughly mixing the sample in the center of a dedicated sampling device or decontaminated stainless steel pan or bowl, then quartering and mixing the individual sample corners. The entire sample will be rolled to the center of the sampling device followed by a final mix. Sample collection will be conducted after homogenization. Soil samples will not require preservation except for maintaining the media to approximately 4°C.

4.0 GROUNDWATER SAMPLE COLLECTION PROCEDURES

Purging and sampling methods will utilize the simplest sampling method that will yield representative groundwater samples. Dedicated sampling equipment (i.e., disposable bailer and cord or polyethylene tubing and peristaltic pump) will be used to collect all groundwater samples.

Prior to sampling, all wells will be purged of at least three casing volumes using dedicated disposable polyethylene bailers or other suitable device (e.g., peristaltic pump

with dedicated polyethylene tubing). Wells with low recovery rates will be evacuated to near dryness once and allowed to recover sufficiently for samples to be collected. Wells with low recovery rates will be characterized as those wells where bailing at a slow but steady rate (1000 ml/min) dewaters the well. All measuring equipment will be cleaned between uses and properly calibrated.

4.1 MATERIALS

The following materials will be available for groundwater sampling activities.

- water level indicator (accurate to 0.01 foot);
- new dedicated bailers;
- polypropylene cord;
- one-liter beaker (for dissolved metals samples);
- pH meter (if needed);
- temperature, water level, conductivity meter;
- PID;
- sample bottles/labels;
- chain-of-custody forms;
- thermally insulated container with cold source;
- sample preservation (may be added to bottle by analytical laboratory);
- 0.45 micron polypropylene filter (for dissolved metals samples);
- field book:
- PPE as needed (gloves, etc.); and
- decontamination supplies (detergent, water, hexane, methanol or nitric acid rinses, bucket, brushes, etc.).

4.2 GROUNDWATER SAMPLING PROTOCOL

Groundwater sampling protocol is described below.

- Open well casing and monitor headspace for VOCs. If greater than 5 ppm detected, allow well to vent for 5 to 10 minutes. Re-measure headspace for VOCs. Record PID readings in field book.
- If bailers are to be utilized, a clean, dedicated, disposable bailer will be attached to new dedicated cord. If other devices are to be used (e.g., peristaltic pumps), only clean dedicated disposable polyethylene tubing will be introduced into the well. Both the cord and the bailer, and/or dedicated polyethylene tubing, will be properly discarded upon completion of the well sampling event.
- The bailer or other suitable device will be used to purge three well volumes from the well. Measurement of temperature, pH, and conductivity will be made and recorded in the field book along with volume removed. Wells with low recovery rates will be evacuated to near dryness once, then allowed to recover sufficiently for samples to be collected. Wells with low recovery rates will be characterized as those wells where bailing at a slow but steady rate (1000 ml/minute) dewaters the well. All purged water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.
- Within eight hours of purging or as soon as the well has sufficiently recovered from purging to fill a bailer, a water sample will be collected for VOC analysis (if required) using a dedicated polyethylene bailer. Care will be taken not to agitate the sample when transferring it from the bailer to the laboratory-supplied vials. Samples for any additional parameters will be collected subsequent to the VOC samples. Assuming adequate recharge, all samples will be collected within eight hours of purging.
- VOC samples will be collected in 40 ml glass vials with zero headspace and will be preserved with hydrochloric acid to a pH of less than two (in accordance with

the instructions provided in the Region II CERCLA QA Manual, Revision 1, October, 1989, p. 31). All other bottles will be filled to 90% capacity and then properly preserved (Note: all non-VOC aqueous sample preservation will be verified by pouring a small amount of the preserved sample over pH paper; submerging pH paper into sample container will not be permitted).

- Total metals samples (if needed) will be collected after the well has recovered sufficiently to allow for a sample with minimal turbidity. Total metals samples will be collected by gently lowering the bailer into the well to minimize disturbance to the water column.
- Dissolved metals samples (if required) will be field filtered using a disposable, polypropylene, in-line 0.45-micron filter. Filtering will be conducted immediately after dissolved metals sample collection. Approximately 500 ml of the sample is transferred to a clean 500-ml beaker. The sample is then passed through the polypropylene in-line filter described above via pumping through Teflon® tubing.
- Sample containers will be capped immediately after filling and placed into an iced cooler for transport to the laboratory.
- Sampling will progress from the least contaminated well to the most contaminated
 well, based on the results of previous sampling and analysis. Samples will be
 properly preserved, stored on ice and transported to the laboratory under the
 proper chain-of-custody.



BINGHAMTON PLAZA, INC.

ATTACHMENT 3
QUALITY ASSURANCE PROJECT PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

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1.0 INTRODUCTION

This document represents the Quality Assurance Project Plan (QAPP), which is Attachment 3 of the Site Investigation Work Plan for the Binghamton Plaza, Inc. site located at 33 West State Street, Binghamton, New York (the "Site"). This QAPP describes the field and laboratory quality assurance and quality control (QA/QC) measures to be implemented during the project.

2.0 SITE GOALS

As described in the Site Investigation Work Plan, the goals of the site work are to evaluate the nature and extent of any impacted subsurface soil and shallow groundwater at the site.

Prior work at the site has included soil and groundwater sampling to identify potential constituents of concern at the Site. Pending site activities will consist of drilling, monitoring well installation and multi-media sampling.

3.0 QUALITY ASSURANCE OBJECTIVES

3.1 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) are based on the concept that various uses of data collected during the Site Investigation require varying degrees of data quality. Data quality is defined as the degree of certainty in a data set with respect to precision, accuracy, representativeness, completeness and comparability (PARCC). DQOs are qualitative and quantitative statements specifying the required quality of data necessary to support Site Investigation activities. These activities include site screening and site characterization. A description of PARCC parameters is described below.

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Precision is best expressed in terms of the standard deviation. Various measures of precision exist depending upon the "prescribed similar conditions".

Accuracy is the degree of agreement of a measurement (or an average of measurements) with an accepted reference or "true value". Accuracy is one estimate of the bias in a system.

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under correct normal conditions.

Comparability expresses the confidence with which one data set can be compared to another data set.

It is the responsibility of the field team to collect representative and complete samples. It is the responsibility of the analytical laboratory to analyze these samples using accepted protocols resulting in data that meet PARCC standards.

The categories of data quality to be utilized during the Site Investigation at the subject site are consistent with those outlined in the USEPA Guidance document entitled Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, dated October 1988, and are described below.

- DQO Level 1 Field Screening Utilizing Portable Instrumentation: Data used for site health & safety monitoring and field screening during site characterization activities. The data generally determines the presence or absence of certain constituents and is generally qualitative rather than quantitative. Field screening data provides the lowest data quality.
- <u>DQO Level 2 Field Laboratory Analysis:</u> Data used for field screening during site characterization activities, evaluation of remedial alternatives, engineering design and monitoring during implementation of alternatives. The data generally determines levels of certain constituents relative to a calibration standard and is generally qualitative or quantitative.
- <u>DQO Level 3 Engineering Level Data:</u> Data used for site characterization, risk assessment, evaluation of alternatives, engineering design and monitoring during implementation of alternatives. The data is quantitative and is generated using EPA analytical laboratory procedures, however, it does not include full Contract Laboratory Protocol (CLP) documentation.
- <u>DQO Level 4 Laboratory Analysis:</u> Data used for risk assessment, evaluation of alternatives and engineering design. The data is quantitative and is generated using EPA analytical laboratory procedures. All analyses require full Analytical Services Protocol (ASP)/CLP analytical protocols including Data Usability

Summary Reports (DUSR). The majority of the data generated during the Site Investigation will be DQO Level 4.

DOO Level 5 - Non-Standard Special Analytical Services: Data for use when analysis by non-standard procedures is required to obtain specific or lower detection limits or analyses are not of a nature typically performed under the CLP Routine Analytical Service (RAS) Program.

DQOs have been developed for the tasks outlined in the Work Plan. During the Site Investigation process it is anticipated that DQO Levels 1 and 4 will primarily be utilized.

DQO Level 1 data (field screening) will be generated during site characterization activities including: head space screening of soil samples; health and safety monitoring; and collection of groundwater parameters.

DQO Level 2 data (field analysis), DQO Level 3 data (engineering) and DQO Level 5 (non-standard) data are not expected to be generated as part of the Site Investigation activities. However, data at these DQO levels may be generated during a Supplemental Investigation, if required.

DQO Level 4 data (laboratory analysis) will be generated during site characterization activities including: soil sampling and analysis, groundwater sampling and analysis and surface water/sediment sampling and analysis.

3.2 FIELD SAMPLING QUALITY OBJECTIVES

The objectives with respect to field sampling activities are to maximize the confidence in the data in terms of PARCC. Field Internal Quality Control Checks will be utilized during this investigation through the use of field duplicates as presented below.

Field Duplicates – With the exception of the air sampling, one of every twenty samples of a particular sampling medium (i.e., soil, groundwater, surface water and/or sediment) collected in the field will be accompanied by a duplicate sample. The duplicate will be prepared by homogenizing the sample to the extent possible and preparing two identical sample aliquots for analysis (grab samples will be used for VOC analysis). The duplicate sample will be assigned a fictitious sample number which will be recorded in the field notebook. Analysis of duplicate samples will determine the precision of the analytical techniques.

Precision will be calculated as relative percent difference (RPD) if there are only two analytical points, and percent relative standard deviation (%RSD) if there are more than two analytical points. Through the submission of field QC samples, the distinction may be made between analytical problems, sampling technique considerations, and sample matrix variability. This distinction will be made by the data reviewer based on industry guidelines and personal judgment.

To assure representativeness, a field sampling plan has been devised that estimates the number of samples to be collected. This plan is presented in the project Field Activities and Analysis Plan (FAAP). The data quality objective for the completeness of all data to be collected during the investigation is 100%. In other words, the objective is to collect samples from all of the locations noted in the FAAP. In the event 100% is not obtained due to inaccessibility of sampling points or other field conditions, the effect that the missing data will have on the project's objectives will be evaluated. If necessary, corrective action will be initiated to resolve any data gaps that develop as a result of less than 100% data completeness. Every effort will be made to obtain valid data for all sampling points, particularly those identified by the Site Manager as critical points. In this regard, the sampling points identified as critical will be selected for QC sampling (duplicate sample collection) at the frequency specified.

In order to establish a degree of comparability, such that observations and conclusions can be directly compared with all historical data, standardized methods of field analysis,

sample collection, holding times, sample preservation and standard units of measurement for data will be used. In addition, field conditions will be documented and considered when evaluating data to determine the effects of sample characteristics on analytical results. Whenever possible, the same sampling team will obtain all samples to reduce inconsistencies which may be caused by technique and time variables.

3.3 LABORATORY DATA QUALITY OBJECTIVES

The laboratory will demonstrate analytical precision and accuracy by the analysis of laboratory duplicates and by adherence to accepted manufacture and procedural methodologies.

The performance of the laboratory will be evaluated by the Project Manager and Project Quality Assurance Officer during data reduction. The evaluation will include a review of all deliverables for completeness and accuracy when applicable.

4.0 QUALITY CONTROL PROCEDURES

This section presents a general overview of the quality assurance and quality control (QA/QC) procedures that will be implemented during the investigation. These quality control procedures are to be implemented as follows:

- at the factory for certain manufactured products;
- · in the field; and
- in the laboratory utilized for selected sample analyses.

4.1 SAMPLING ACTIVITIES

Sampling and analysis will be conducted to characterize the Site. General field sampling procedures are described in Appendix A of the FAAP. Samples will be handled by all field and laboratory personnel in a manner which allows for custody tracking and maintenance of the validity of the samples. Sample custody procedures are presented as Appendix A of this QAPP.

All sampling equipment, field measuring equipment and heavy equipment will be decontaminated according to the decontamination procedures presented in Appendix B of this QAPP.

All field activities will be documented in accordance with Appendix C of this QAPP.

5.0 CALIBRATION PROCEDURES

Laboratory calibration and frequency for specific analytical methods and pieces of equipment are specified in USEPA SW846 and the laboratory's Standard Operating Procedures.

During the course of this investigation, soil samples may be screened with a photoionization detector (PID) in the field. A maintenance, calibration, and operation program will be implemented to ensure that routine calibration and maintenance is performed on all field instruments. The O&M program will be monitored by the Site Manager. Trained team members will perform scheduled calibration, field calibrations, checks, and instrument maintenance prior to use each day. Additionally, calibration will be checked as necessary to ascertain that proper measurements are being taken.

Team members are familiar with the field calibration, operation, and maintenance of the equipment, and will perform the prescribed field operating procedures outlined in the operation and field manuals accompanying the respective instrument. Field personnel will keep records of all field instruments calibrations and field checks in the field logbooks. Calibration information recorded in field logbooks will include date, time, instrument model and serial number, a description of calibration or field check procedure, and any instrument deviations.

If on-site monitoring equipment should fail, the Site Manager will be contacted immediately. Replacement equipment will be provided or the malfunction will be repaired in a timely fashion.

6.0 ANALYTICAL PROCEDURES AND DATA EVALUATION

Site Investigation activities will include sample collection for analysis for some or all of the following analytes: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), polychlorinated biphenyls (PCBs), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and miscellaneous indicator parameters as specified in the "Routine Parameter list" in 6 NYCRR Part 360 Subpart 360-2.11. Soil, groundwater, surface water and sediment samples will be collected during the course of this Site Investigation. In general, laboratory analytical procedures will adhere to NYS ASP 2000 and/or to USEPA SW-846 methodologies as appropriate. The laboratory will adhere to the requirements of NYS ASP 2000 in conjunction with the CLP. Samples will be analyzed by a laboratory that is a NYSDOH ELAP certified laboratory that participates in the CLP and is experienced in performing ASP analyses.

A summary of the sampling program and analytical methods is shown in Table 6-1.

Upon receipt of analytical reports from the laboratory, the data packages will be evaluated to confirm that samples were analyzed within required holding time and at proper detection limits. Data validation will be conducted for all samples analyzed in accordance with ASP methodologies. The laboratory will provide ASP 2000 category B QA/QC backup for data packages with all confirmation sampling analytical reports (excluding and TCLP analyses and material characterization analyses). These packages will be reviewed for completeness and provided upon request.

Table 6-1
Site Investigation Sampling Program

Task	Matrix	VOCs (EPA Method 8260)	SVOCs (EPA Method 8270)	PCBs (EPA Method 8082)	Metals (Various Methods, 8 RCRA metals plus Ca, Fe, Mg, Mn, K, Na)
Soil Borings				_	
B-1 through B-8 and MW-1S, MW-2D, MW-3D, MW-4S and MW-6D	Soil	12	9	9	9
Duplicates (1 per SDG)	Soil	2	2	2	2
Field Blank (1 per SDG)	Soil	2	2	2	2
MS/MSD (1 set per SDG)	Soil	2 sets	2 sets	2 sets	2 sets
Total Soil Samples		20	17	17	17
Groundwater Sampling					
MW-1S through MW-6S,	GW	9	9	9	9
MW-3D, MW-3D and MW-6D	-				
Duplicates (1 per SDG)	GW	1	1	1	1
MS/MSD (1 set per SDG)	GW	1 set	1 set	1 set	1 set
Field Blank (1 per SDG)	Water	1	1	1	1
Trip Blank	Water	1	-	-	-
Total Groundwater		14	13	13	13
Samples					

Table 6-1 (Continued) Site Investigation Sampling Program

Task	Matrix	VOCs (EPA Method 8260)	SVOCs (EPA Method 8270)	PCBs (EPA Method 8082)	Metals (Various Methods, 8 RCRA metals plus Ca, Fe, Mg, Mn, K, Na)
Surface Water Sampling					
SW-1 and SW-2	Surface Water	2	2	2	2
Duplicates (1 per SDG)	Surface Water	1	1	1	1
MS/MSD (1 set per SDG)	Surface Water	1 Set	1 Set	1 Set	1 Set
Trip Blank	Water	1	-	-	-
Total Surface Water		7	6	6	6
Samples				:	
Sediment Sampling					
SED-1 and SED-2	Sediment	2	2	2	2
Duplicates (1 per SDG)	Sediment	1	1	1	1
MS/MSD (1 set per SDG)	Sediment	1 Set	1 Set	1 Set	1 Set
Field Blank (1 per SDG)	Water	1	1	1	1
Total Sediment Samples		6	6	6	6

Notes for Table 6-1:

- The method quantification limits will be the lowest as required by the method.
 The actual detection limit will be dependent upon the sample matrix.
- 3: Holding times, preservatives and sample containers will be specified by the analytical method.

The project QA/QC officer will review the data packages to confirm completeness of the ASP Category B deliverables and to prepare a Data Usability Summary Report (DUSR) in accordance with NYSDEC guidelines. The QA/QC officer will be independent from the analytical laboratory. At a minimum, the following information will be evaluated:

- chain-of-custody forms;
- date sampled/date analyzed;
- sample temperature at check-in;
- raw data:
- initial and continuing instrument calibrations;
- matrix spikes;
- laboratory duplicate analyses;
- surrogate recoveries (organics); and
- laboratory control samples (inorganics).

Data reduction will consist of presenting analytical results on summary tables. Data resulting from investigation analyses will then be used to characterize the various environmental media at the site and to define the extent of any impacted medium.

7.0 PROJECT PERSONNEL

This Work Plan was prepared by a project team from Delta Environmental Consultants, Inc. (Delta) with extensive experience in site investigation and remediation, site development and construction management.

This project will be implemented by a project team with extensive experience in site investigations, site remediation, and site development and construction management. The project team will consist of individuals from Delta. The project team will be responsible for implementation of the Site Investigation Work Plan. Key personnel to be assigned to this project, and their project role, will be provided prior to the start of work; professional profiles for these persons will also be provided prior to the start of work.

The laboratory analytical contractor will be an NYSDOH-certified laboratory with ASP/CLP experience to be selected upon completion and approval of the Site Investigation Work Plan. Site contractors will be selected upon completion and approval of the Site Investigation Work Plan.

8.0 SCHEDULE

The estimated work schedule is presented in Section 8.0 of the Site Investigation Work Plan document. A start date will be established based on finalization of the Work Plan.

APPENDIX A SAMPLE CUSTODY PROCEDURES

SAMPLE CUSTODY PROCEDURES

The primary objective of the sample custody procedures is to create an accurate written record which can be used to trace the possession and handling of all samples from the moment of their collection, through analysis, until their final disposition. For the purpose of this document, the USEPA Office of Enforcement and Compliance Monitoring, National Enforcement Investigation Center (NEIC) Policies and Procedures (May 1986) definition of custody applies. USEPA states that a sample is under custody if:

- 1. it is in one's possession, or
- 2. it is in one's view, after being in one's possession, or
- 3. it is locked up after being in one's possession, or
- 4. it is in a designated secure area.

The Site Manager or the field personnel collecting the samples will maintain custody for samples collected during this investigation. The Site Manager or field personnel are responsible for documenting each sample transfer and maintaining custody of all samples until they are shipped to the laboratory.

A self-adhesive sample label will be affixed to each container before sample collection. These labels will be covered with clear waterproof tape if necessary to protect the label from water or solvents. The sample label will contain the following information:

- Laboratory Name
- Sample ID Number
- Sample Location
- Sample Matrix
- Date and Time of Sample Collection

- Designation as grab or composite
- Parameters to be Tested
- Preservative Added
- Name of Sampler.

All sampling containers will be supplied by the laboratory, and are to be cleaned by the bottle supplier in accordance with standard laboratory procedures. Analytical proof of cleanliness will be available for review. Sample containers will be enclosed in clear plastic bags and packed with cushioning material (e.g. vermiculite) inside the coolers.

The Site Manager will maintain custody of the sample bottles. Sample bottles needed for a specific sampling task will then be relinquished by the Site Manager to the sampling team after the Site Manager has verified the integrity of the bottles and that the proper bottles have been assigned for the task. The sampler will place a sufficient volume of sample in the appropriate laboratory-grade bottles for use as sample containers. All necessary chemical preservatives will then be added to the bottles after sample collection.

The samples collected for analyses will be stored in an insulated cooler for shipment to the laboratory. The laboratory should receive the samples within 48 hours of sampling. Field chain-of-custody records completed at the time of sample collection will be placed inside the cooler for shipment to the laboratory. These record forms will be sealed in a zip-lock type plastic bag to protect them against moisture. Each cooler will contain sufficient ice packs to insure that an approximate 4°C temperature is maintained, and will be packed in a manner to prevent damage to sample containers. Sample coolers will be sealed with nylon strapping tape and the Site Manager will sign and date a custody seal and place it on the cooler in such a way that any tampering during shipment will be detected.

All coolers will be shipped by an overnight courier according to current US DOT regulations. Upon receiving the samples, the sample custodian at the laboratory will

inspect the condition of the samples, compare the information on the sample labels against the field chain-of-custody record, assign a laboratory control number, and log the control number into the computer sample inventory system. The sample custodian will then store the sample in a secure sample storage cooler maintained at approximately 4°C and maintain custody until the sample is assigned to an analyst for analysis. Custody will be maintained until disposal of the analyzed samples.

The sample custodian will note any damaged sample vials, void space within the vials, or discrepancies between the sample label and information on the field chain-of-custody record when logging the sample. This information will also be communicated to field personnel so proper action can be taken. The chain-of-custody form will be signed by both the relinquishing and receiving parties and the reason for transfer indicated each time the sample custody changes.

An internal chain-of-custody form will be used by the laboratory to document sample possession from laboratory sample custodian to analysts and final disposition. All chain-of-custody information will be supplied with the data packages for inclusion in the document control file.

APPENDIX B DECONTAMINATION PROCEDURES

DECONTAMINATION PROCEDURES

INTRODUCTION

Decontamination of all field investigation and sampling equipment will follow guidelines established in the USEPA Region II CERCLA Quality Assurance Manual, Final Copy, October 1989, and specific decontamination procedures detailed below.

Equipment cleaning areas will generally be established within or adjacent to the specific work area. The equipment cleaning procedures described below include pre-field, field and post-field cleaning of sampling equipment. The equipment consists of soil and sediment sampling equipment. The non-disposable equipment will be cleaned after completing each sampling event. All rinse water will be contained and treated on site or sent to an approved disposal facility. The site manager will monitor cleaning procedures.

All solvents and water used in the decontamination process will be contained and collected for characterization and proper disposal. Solids (e.g., disposable gloves, disposable clothing, and other disposable equipment) generated from personnel cleaning procedures will be collected for proper disposal. Decontamination procedures will be fully documented in the field notebook.

SAMPLING EQUIPMENT DECONTAMINATION

Typical sampling equipment cleaning materials will include:

- phosphate-free detergent wash;
- potable water (which will be obtained from a treated municipal water source);
- deionized water rinse;

- appropriate cleaning solvent (e.g., pesticide grade hexane or methanol), if required;
- wash basins;
- brushes;
- polyethylene sheeting;
- aluminum foil;
- large heavy duty garbage bags;
- spray bottles;
- zip-lock type bags;
- paper towels/Handiwipes®; and
- non-phthalate, latex, disposable gloves (surgical gloves). Note: These gloves will also be worn by the sampling team and changed between sample points.

All sampling equipment will be stored in a clean environment and, where appropriate, the equipment will be covered in aluminum foil.

Field decontamination procedures, as described below, will include the establishment of cleaning stations. These stations will be located away from the immediate work area so as not to adversely impact the cleaning procedure, but close enough to the sampling teams to keep equipment handling to a minimum.

A designated area will be established to conduct large scale cleaning. All equipment such as drill rigs and excavation equipment will be inspected to determine if an initial cleaning at this location prior to use on-site is needed. The frequency of subsequent on-site cleaning will depend on actual equipment use in the collection of environmental samples or during remedial activities. All fluids and residues produced from the decontamination procedures will be collected and stored on-site until analyses can be

conducted and a decision regarding final disposition of the materials is made pursuant to state and federal requirements.

All non-dedicated sampling equipment (e.g. hand-operated coring devices, knives, hand-augers, bowls) will be cleaned before each use. The field sampling equipment-cleaning procedure when analyzing for organic constituents is as follows:

- Phosphate-free detergent wash;
- Potable water rinse;
- Deionized water rinse;
- Repeat water rinse twice (i.e., triple rinse) and allow to air dry; and
- Wrap equipment completely with aluminum foil to prevent contact with other materials during storage and/or transport to the sampling location.

The initial step, a soap and water wash, is to remove all visible particulate matter and residual oils and grease (this may be preceded by a steam cleaning to facilitate residuals removal). When analyzing for organic constituents when tools appear heavily contaminated, this may be followed by a potable water rinse to remove the detergent and a rinse sequence of solvent (e.g., hexane, and methanol) and deionized water.

All heavy equipment (drill rigs, excavator, etc.) will be steamed cleaned between locations if the equipment comes in direct contact with contaminated media. All downhole equipment (augers and buckets) will be steam-cleaned between uses at each location. Equipment will be scrubbed manually as needed to remove heavy soils prior to steam cleaning. Clean equipment will be stored in an inactive work area on-site until use.

METER AND FILTER DECONTAMINATION

All meters and probes used in the field will be decontaminated between use as follows:

1. deionized water (triple rinse).

Sampling equipment and probes will be decontaminated in an area covered by polyethylene sheeting near the sampling location.

APPENDIX C FIELD DOCUMENTATION

FIELD DOCUMENTATION

All the field data, such as those generated during field measurements, observations and field instrument calibrations, will be entered directly into a bound field notebook. Each project team member will be responsible for proofing all data transfers made, and the Site Manager will proof at least ten percent of all data transfers.

One or more bound field notebooks may be maintained for the site; each book will be consecutively numbered. The book(s) will remain with the site evidence file.

All entries in the Logbook will be made in ink. Logbook entries will include but not be limited to the following:

First Page:

- site name and number
- date and time started
- personnel on-site

Subsequent Pages:

- detailed description of investigative activities including sampling, on-site
 meetings and any problems encountered along with the duration of these activities
- documentation of all personnel monitoring results (e.g. PID readings)
- list of all samples obtained and sample appearance (referenced to field logs if necessary)
- list of personal protection used and documentation procedure

• all other pertinent daily activities

Each new day will contain:

- date and time started
- weather
- personnel on-site
- activity information
- initials of notekeeper

Note: When a mistake is made in the log, it will be crossed out with a single ink line and will be initialed and dated.

Special care will be taken in the description and documentation of sampling procedures. Sampling information to be documented in the field notebook and/or associated forms are as follows:

- sample number
- date and time sample collected
- source of sample (Area, monitoring well number, etc.)
- location of sample document with a site sketch and/or written description of the sampling location so that accurate resampling can be conducted if necessary
- sampling equipment (trowel, split spoon, sediment corer, etc.)
- analysis and QA/QC required

- chemical preservative used (HCI, HNO₃, H₂SO₄, NaOH, etc.)
- field instrument calibration including date of calibration, standards used and their source, results of calibration and any corrective actions taken.
- field data (pH, temperature, conductivity, etc.)
- field observations all significant observations will be documented.
- sample condition (color, odor, etc.)
- site condition (stressed vegetation, exposure of buried wastes, erosion problems, etc.)
- sample shipping procedure, date, time, destination and if container seals were attached to transport container(s)
- comments any observation or event that occurred that would be relevant to the
 facility; for example: weather changes and effect on sampling, conversations with
 the client, public official or private citizen; and instrument calibration, equipment
 problems, and field changes.



BINGHAMTON PLAZA, INC.

ATTACHMENT 4
HEALTH AND SAFETY PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc.

30 Galesi Drive, Suite 301 Wayne, New Jersey 07470 Prepared by:

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Project No. 0504001P



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1.0 INTRODUCTION

This document represents the Health and Safety Plan (HASP), which is Attachment 4 of the Site Investigation Work Plan prepared for the Binghamton Plaza site.

This HASP summarizes the intended field activities at the Site and chemicals of concern expected to be present. The HASP then describes the procedures to be followed in conducting the field operations, given the existing data concerning the Site.

2.0 FIELD ACTIVITIES AND CHEMICALS OF CONCERN

A description of the field activities to be conducted is described in the associated Field Activities and Analysis Plan (FAAP) presented as Attachment 2 to the Site Investigation Work Plan. Planned Site activities include groundwater monitoring well and soil boring installation and multi-media sampling. Site activities are planned for the late summer to fall of 2005.

Previous investigative activities at the Site have identified volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs and metals as the primary chemicals of concern. Concentrations of VOCs, SVOCs, PCBs and metals detected in soil and/or groundwater are as follows:

Soil Sample Results

Volatile Organic Compounds (ppb)

28 - 220 ppb
ND - 4 ppb
ND - 47 ppb
ND - 7 ppb
3 - 48 ppb
ND - 4 ppb
ND - 5 ppb
ND - 18 ppb
ND - 8 ppb
ND - 11 ppb
ND - 3 ppb
ND - 18 ppb
ND - 100 ppb

Semi-Volatile Organic Compounds (ppb)

Acenaphthene	ND - 2000 ppb
Acenaphthylene	ND - 1800 ppb
Anthracene	ND - 4100 ppb
Benzo(a)anthracene	ND - 7600 ppb
Benzo(b)fluoranthene	ND - 12000 ppb
Benzo(k)fluoranthene	ND - 13000 ppb

Benzo(a)pyrene	ND - 3800 ppb
Chrysene	ND - 10000 ppb
Dibenzo(a,h)anthracene	ND - 1500 ppb
Fluoranthene	ND - 23000ppb
Fluorene	ND - 5100 ppb
Indeno(1,2,3-cd)pyrene	ND - 1800 ppb
2-Methylnaphthalene	ND - 13000 ppb
Naphthalene	ND - 3900 ppb
Phenanthrene	180 - 25000 ppb
Pyrene	ND - 12000 ppb

PCBs Total (ppb)

Aroclor 1242	ND - 340 ppb
Aroclor 1254	ND - 3000 ppb

Metals (ppm)

Arsenic	4.6 - 76.2 ppb
Barium	529 - 57.1 ppb
Cadmium	ND - 220 ppb
Chromium	16.6 - 39.1 ppb
Lead	98.9 - 1200 ppb
Mercury	0.23 - 3.50 ppb
Selenium	ND - 68.8 ppb
Silver	ND - 28.5 ppb

Groundwater Sample Results

Volatile Organic Compounds (ppb)

ND - 64 ppb
ND - 7.90 ppb
ND - 18 ppb
ND - 1.70 ppb
ND - 9.70 ppb
ND - 0.41 ppb
0.91 - 23 ppb
ND - 0.70 ppb
ND - 2.30 ppb
ND - 11 ppb
ND - 1.40 ppb
ND - 2.0 ppb

Isopropyl benzene	ND - 4.50 ppb
Methylcyclohexane	ND - 0.62 ppb
Methylene Chloride	ND - 5.90 ppb
MTBE	ND - 0.82 ppb
Tetrachloroethene	ND - 8.60 ppb
Trichloroethene	ND - 5.50 ppb
Vinyl Chloride	ND - 4.0 ppb
Xylenes (total)	ND - 13 ppb

Semi-Volatile Organic Compounds (ppb) A cenaphthene ND = 5.0 pph

Acenaphthene	ND - 5.0 ppb
Benzo(a)anthracene	ND - 3.0 ppb
Benzo(b)fluoranthene	ND - 4.0 ppb
Chrysene	ND - 3.0 ppb
Fluoranthene	ND - 8.0 ppb
Fluorene	ND - 3.0 ppb
2-Methylnaphthalene	ND - 7.0 ppb
Naphthalene	ND - 16.0 ppb
Phenanthrene	ND - 6.0 ppb
Pyrene	ND - 5.0 ppb

PCBs Total (ppb)

Aroclor 1254	ND - 0.32
Aroclor 1254	ND - 0.32

Metals (ppb)

Micials (pps)	
Arsenic	ND - 140 ppb
Barium	170 - 3600 ppb
Cadmium	ND - 15 ppb
Chromium	8.8 - 210 ppb
Lead	30 - 4000 ppb
Mercury	ND - 50 ppb
Selenium	All ND
Silver	ND - 88 ppb

3.0 POTENTIAL CHEMICAL AND PHYSICAL HAZARDS

VOCs and SVOC are the main compounds of concern that may be present at the site. Since the field activities involve subsurface disturbance, inhalation (volatiles and dust particles), dermal contact and ingestion are considered the potential pathways of concern.

Since the levels of exposure are considered low, general exposure assumptions are being made to address compliance with OSHA permissible exposure limit (PEL). For VOCs and SVOCs, the exposure limit being used is 5 ppm. The PEL was used to develop action levels for site personnel.

Physical hazards may also be encountered at the Site, especially during drilling activities. Table 3-1 lists potential physical hazards that may be encountered during the field activities. This list has been compiled based on planned activities and potential site conditions.

Table 3-1 Physical Safety Concerns Binghamton Plaza Site

Hazard	Description	Location	Procedures Used to Monitor/Reduce Hazard
Underground Utilities	Electric, Gas, Sanitary and Storm Sewer	Throughout	Verify number and location of all utilities prior to site operations.
Heat Stress	Hot Weather Activities	Throughout	Protections and monitoring as designated in this HASP
Cold Weather	Frost-bite, Hypothermia	Throughout	Wear appropriate clothing. Provide warm shelter area and liquids. Monitor worker physical conditions.
Heavy Equipment	Drill Rig	Select Areas	All personnel should be cautious around heavy equipment. Make eye contact with operator prior to entering the work area.
Weather	Lightning, Heavy Rain or Snow	Throughout	During lightning, cease all heavy equipment activities. During cold weather, beware of wet and slippery conditions.
Noise	Heavy Equipment	Select Areas	Use appropriate earplugs or earmuffs, during equipment operation.
Overhead Electrical Equipment	Overhead Lines	Select Areas with Heavy Equipment	Maintain at least 10 feet of clearance from any overhead lines.
Struck by Vehicle	Work in Traffic Areas	Parking Lots	Block all work areas off with reflective cones.
Water (Drowning)	Chenango River	West side of the site	Barricade tape to delineate 10 feet limited access area. Use of life preserver working within area. Possible use of lifeline if river conditions are hazardous (fast flow, steep bank, and/or deep water). Use of life preservers for all sampling from boat, raft, dock or similar.

4.0 HAZARDS EVALUATION

Details pertaining to site activities are outlined in the FAAP and QAPP, presented as Attachments 2 and 3, respectively, in the Site Investigation Work Plan.

4.1 SITE MONITORING FOR CHEMICAL HAZARDS

The primary compounds of concern in the work areas are VOCs and SVOCs. Air monitoring (where applicable) and good work practices will be used during the field activities to ensure that appropriate personal protection is used and to minimize potential exposures. Appropriate monitoring equipment to be used during site activities is described herein. All field monitoring will be conducted by or under the supervision of the Site Safety Officer (SSO). The SSO will properly maintain and calibrate all monitoring instruments throughout the field activities to ensure their accuracy and reliability.

4.1.1 Volatile Organic Compound (VOC) Monitoring

Some VOCs and SVOCs have been identified during a previous investigation at the site. Based on the activities being conducted, it is not anticipated that VOC or SVOC exposure, through inhalation, will be of concern. To ensure this, monitoring will conducted during field activities.

Direct reading air monitoring for VOCs/SVOCs will be performed during activities involving potentially contaminated soils, as determined necessary by the SSO. Direct reading instrumentation, such as a photoionization (PID) or flame ionization detector (FID) will be utilized. Based on the exposure levels in the breathing zone of personnel, the SSO will determine if an upgrade in respiratory protection is warranted. These upgrade levels are presented in the following table.

Table 4-1 Personal Protection Action Levels - VOCs Binghamton Plaza Site

Total VOC Concentration (ppm)	Required Action and/or Personal Protection			
Monitor during all operations with the potential to release VOCs.				
Detection Limit to 5 ppm	Level D personal protection			
(sustained in breathing zone)				
5.0 ppm to 500 ppm	Upgrade to Level C personal protection with full-face air purifying respirators with Organic Vapor cartridges. Change cartridges after each days use, (Due to potential vinyl chloride contamination).			
Over 500 ppm	Notify the Site Safety Officer for Level B provisions or implement means to control exposure levels.			

4.2 PHYSICAL HAZARDS

To minimize hazards, standard safety procedures will be followed at all times. The primary physical safety hazards for this project include, but are not limited to:

- common slip, trip, and fall hazards;
- overhead and buried electrical hazards;
- drill rig operation;
- electrical and power equipment;
- vehicular traffic;
- lifting excessive weights;
- sampling hazards;
- excessive noise levels;
- · heat and cold stress;
- water (drowning); and
- other hazards.

4.2.1 Common Slip, Trip, Fall Hazards

Personnel should be aware of common slip, trip or fall hazards that are encountered frequently in industrial and project environments. Particular attention is required near river water edges. Heightened awareness and emphasis on good housekeeping are the most effective ways to prevent accidents.

4.2.2 Overhead and Buried Hazards

Utility lines, both above and below ground, may pose a safety hazard for site personnel during soil boring or other heavy equipment operations. If overhead utilities have been identified on site as a hazard, the equipment operator must maintain a safe clearance between the lines and the equipment at all times during work operations. High voltage lines require greater clearance distances. As a safe work practice, equipment operators will maintain a 10-foot clearance between equipment and power lines or other energized sources unless the source is greater than 350 KV, in which case 29CFR 1910.180(j) must be applied. The location of buried utilities lines must be determined and delineated prior to the start of work activities. Overhead and buried utility and electrical lines may be a concern during all activities. These concerns will be addressed as part of the daily safety meeting.

4.2.3 Drill Rig and Heavy Equipment Operation

Truck-mounted drill rigs and heavy equipment presents multiple hazards while in operation. Excessive noise, boom raising, lowering and swing, cable and hook damage and operator error may result in injuries. To minimize potential accidents, the following safety measures will be required for all operations:

- All operators of equipment used on site will be familiar with the requirement for inspection and operation of such equipment. The operator will be required to demonstrate proficiency in safe operation the equipment;
- All drilling shall be performed from a stable ground position, if unable to locate
 on level ground, the drill rig shall be appropriately checked, blocked and braced
 prior to the derrick being raised;
- Daily inspections of the drilling or excavation area shall be made by a person competent in heavy equipment safety. The inspector shall note the safety of the area and confirm the location of utilities;
- Before drilling, the existence and location of utility lines (electric and gas) will be
 determined by the Site owner. If the knowledge is not available, an appropriate
 device, such as a cable avoiding tool, will be used to locate the services line(s);
- Operations must be suspended and the area evacuated if the airborne flammable concentration reaches 10 percent of the LEL in an area of an ignition source, such as an internal combustion engine or an exhaust pipe;
- Combustible gas readings of the general work area will be obtained, as required, based on the SSO's determination;
- If drilling equipment is located in the vicinity of overhead power lines, a minimum distance of 10-feet must be maintained between the lines and any point on the equipment;
- Daily inspection of the drill rig and heavy machinery must be conducted and documented by the operator prior to each day's operation: and

• In the event repairs to the drilling rig derrick are required, personnel climbing the derrick to affect such repairs must wear fall restraint systems, including full body harness and lifeline, to prevent an accidental fall.

4.2.4 Tools - Hand and Power

Hand and power tools will be utilized as part of this investigation. All tools used during field activities will conform to the standards set both in OSHA 29CFR-1926.300 - 1926.305. To minimize the potential for any safety related accidents, the following measures will be required:

- All hand and power tools shall be maintained in a safe condition;
- Power operated tools shall be equipped with protective guard when in use;
- All hand-held power tools shall be equipped with a constant pressure switch that will shut off the power when the pressure is released;
- Hand tools shall be kept free of splinters or cracks;
- Electrical power tools shall have double-insulated type grounding;
- Electrical tools should have ground fault circuit interrupters (GFCI) in place for outdoor use;
- Electrical cords are not permitted for hoisting or lowering tools:
- All fuel powered tools shall be stopped while being refueled or maintained;
 and
- When fuel powered tools are used in enclosed spaces the ambient air will be measured for oxygen and toxic gases.

4.2.5 Vehicular Traffic

Vehicular traffic in and around the facility may pose a hazard to project personnel. Precautions, including reflector vests and cones, should be taken when fieldwork is occurring near traveled areas.

4.2.6 Lifting Excessive Weights

Personnel should exercise caution when lifting any object that weighs greater than 50 pounds. For objects, which weigh less than 50 pounds, proper lifting technique is essential to minimize the potential for injury. No excessively bulky objects should be lifted without assistance.

4.2.7 Sampling Hazards

Field activities will consist of collecting soil and sediment samples for analysis and evaluation. The hazards of this operation are primarily associated with the sample collection methods and procedures utilized.

The FAAP outlines the standard methods and procedures that will be utilized for sampling activities. Of these specific procedures, none present hazards that are unique to sampling. Potential hazards that may be encountered are described in other sections of the HASP.

4.2.8 Excessive Noise Levels

Noise generated by heavy equipment may present a hazard during site operations. Excessive noise can physically damage the ear, hinder communications and startle or annoy the workers. All on-site personnel will wear hearing protection (earplugs or earmuffs) when working near heavy equipment and when noise levels may exceed 85dBA.

4.2.9 Heat Stress

Heat stress is the aggregate of environmental and physical work factors that make up the total heat load imposed on the body. The environmental factors of heat stress include air temperatures, humidity, radiant heat exchange, wind and water vapor pressure (related to

humidity). Physical work adds to the total heat stress by producing metabolic heat in the body, proportional to the intensity of work.

Heavy physical labor can greatly increase the likelihood of heat fatigue, heat exhaustion and heatstroke, the latter being a life threatening condition. Heat stress monitoring of personnel shall commence when the ambient temperature is 80°F (70°F if chemical protective clothing is worn) or above. Frequency of monitoring shall increase as the ambient temperature rises. Various control measures shall be employed if heat stress becomes a problem. These include:

- Provision for liquids to replace lost body fluids;
- Establishment of a work/rest schedule that allows for rest periods to cool down;
 and
- Training workers in the recognition and prevention of heat stress.

Specific steps to implement should ambient temperatures pose a hazard include:

- Site workers will be encouraged to drink plenty of water (or nutrient replacement drinks, such as Gatorade) throughout the day.
- On-site drinking water will be kept cool (50°-60°F) to encourage personnel to drink frequently;
- A work/rest schedule that will provide adequate rest periods for cooling down will be established as required;
- All personnel will be advised of the dangers and symptoms of heat stroke, heat exhaustion and heat cramps;
- Employees should be instructed to monitor themselves and co-workers for signs of heat stress and to take breaks as necessary;
- A shaded rest area must be provided. All breaks should take place in the shaded area;
- Employees shall not be assigned to other tasks during breaks;
- All employees shall be informed of the importance of adequate rest, acclimation and proper diet in the prevention of heat stress disorders; and

The buddy system shall be practiced at all times on site.

The signs of heat stress disorders are described below.

Heat Cramps

Heat cramps are caused by heavy sweating and inadequate electrolyte replacement. Signs and symptoms include muscle spasms and pain in the hands, feet, and abdomen.

Heat Exhaustion

Heat exhaustion occurs from increased stress on various body organs, signs and symptoms include:

- Pale, cool, moist skin;
- · Heavy sweating; and
- Dizziness, nausea, fainting.

Heat Stroke

Heat stroke is the most serious form of heat stress, and should always be treated as a medical emergency. The body's temperature regulation system fails and the body temperature rapidly rises to critical levels. Immediate action must be taken to cool the body before serious injury or death occurs. Signs and symptoms of heat stroke include:

- Red, hot, unusually dry skin;
- Lack of, or reduced, perspiration;
- Nausea;
- Dizziness and confusion;
- Strong, rapid pulse and confusion; and
- Coma.

4.2.10 Cold Stress

Cold and/or wet environmental conditions can place workers at risk of cold related illness. Hypothermia can occur whenever temperatures are below 45°F. It is most common during wet, windy conditions, with temperatures between 40° to 30°F. The principal cause of hypothermia in these conditions is loss of insulating properties of clothing due to moisture, coupled with heat loss due to wind and evaporation of moisture on the skin.

Frostbite, the other hazard associated with exposure to the cold, is the freezing of body tissue, which ranges from superficial freezing of surface skin layers to deep freezing of underlying tissue. Frostbite will only occur when ambient temperatures are below 32°F. The risk of frostbite increases as the temperature drops and the wind speed increases.

Most cold-related worker fatalities have resulted from failure to escape low environmental temperatures or from immersion in low temperature water. The single most important aspect of life-threatening hypothermia is a fall in the deep core temperature of the body.

Site workers should be protected from exposure to cold so that the deep core temperature does not fall below 97°F. Lower body temperatures will very likely result in reduced mental alertness, reduction in rational decision making or loss of consciousness with the threat of fatal consequences. To prevent such occurrence the following measures are recommended:

- Site workers shall wear warm clothing, such as mittens, heavy socks, etc. when the air temperature is below 45°F. Protective clothing or coveralls may be used to shield employees from the wind;
- When the air temperature is below 35°F, clothing for warmth, in addition to chemical protective clothing will be worn by employees. This will include:
- Insulated suits, such as whole body thermal underwear;
- Wool socks or polypropylene socks to keep moisture off the feet;

- Insulated gloves and boots;
- Insulated head cover such as hard hat winter liner or knit cap; and
- Insulated jacket with wind and water-resistant outer layer.

At air temperatures below 35°F the following work practices are recommended:

- If the clothing of a site worker might become wet on the job site, the outer layer of clothing should be water impermeable;
- If a site worker's underclothing becomes wet in any way, they should change into dry clothing immediately. If the clothing becomes wet from sweating (and the employee is not comfortable) the employee may finish the task at hand prior to changing into dry clothing;
- Site workers should be provided with a warm (65°F or above) break area;
- Hot liquids such as soups or warm drinks should be provided in the break area.
 The intake of coffee and tea should be limited, due to their circulatory and diuretic effects;
- The buddy system shall be practiced at all times on site. Any site worker observed with severe shivering shall leave the work area immediately; and
- Site workers should be dressed in layers, with thinner lighter clothing next to the body.

4.2.11 Water Hazards (Drowning)

The threat of drowning in the Chenango River adjacent to the site on the west edge must be considered. Steps to eliminate this hazard shall be employed as appropriate to the work performed and the location of work. Prevention steps are:

- Keep mechanical equipment 25-feet back from the river bank. Where placement of equipment is required within 25-feet, life vests shall be worn by the operator. No equipment may be driven or operated within 10-feet of the river bank.
- Provide construction tape as barricade 10-feet from the river bank along the entire side. Eliminate foot traffic and work within this 10-foot buffer as feasible. Require life vest on personnel within the buffer zone, including work from boats, rafts, docks or equivalent.

- The SSO shall determine the need for the use of lifelines in addition to vests. High and/or fast moving water may dictate such use.
- Personnel working from boats must se life vests at all times.

4.2.12 Other Hazards

Insects

Insects including mosquitoes, biting flies, wasps, and bees may be encountered particularly in warm weather. Insect repellents (lotion form) should be available and used as required.

Other Vermin

Vermin including snakes and small mammals may be encountered particularly at river's edge. Rubber boots should be available and worn as required.

5.0 PERSONNEL RESPONSIBILITIES

A Health and Safety Management Team has been developed for the site investigation field activities. The following responsibilities will be assigned to designated project personnel for all activities.

The Site Manager will act in a supervisory capacity over all employees who participate in the field activities specified in this work plan. The Site Manager is responsible for ensuring that health and safety responsibilities are carried out in conjunction with the work plan. As part of these responsibilities, the Site Manager will distribute the HASP to all field team personnel and discuss the HASP prior to the start of field activities. All field personnel will sign the Health and Safety Plan Review Record shown in Figure 5-1, verifying that they have read and are familiar with the contents of this HASP.

The Site Safety Officer (SSO) will be responsible for oversight, implementation and compliance of applicable health and safety regulations on-site. The SSO has the following authority and responsibilities:

- responsibility for the field implementation, evaluation and any necessary field modifications of this HASP;
- responsibility for maintaining adequate supplies of all personal protective equipment, as well as calibration and maintenance of all HASP monitoring instruments;
- authority to suspend field activities due to imminent danger situations;
- responsibility to initiate emergency response activities;
- presentation and documentation of field safety briefings;
- maintain daily log of all on-site safety activities; and
- oversight of health and safety practices for subcontractors.

Figure 5-1 HASP Plan Review Record Binghamton Plaza Site

HEALTH AND SAFETY PLAN REVIEW RECORD

I have read the Health and Safety Plan for the S and degree of exposure likely as a result of part the requirements in the Health and Safety Plan.	ticipation in this project. I agree to follow all
Employee Signature	Date
Name	
Site Manager Signature	Date
Name	

Subcontractors will be provided with a copy of this HASP and will be informed of health and safety concerns, as well as environmental monitoring data collected during field activities. This information will be shared with the subcontractors to assist them in implementing the appropriate health and safety measures. Contractors will be required to prepare and implement their own HASP that is at least as stringent as this project HASP. The contractor is not responsible for the health and safety of subcontractors or other site or facility personnel.

6.0 MEDICAL SURVEILLANCE AND TRAINING

All personnel who are potentially exposed to site contaminants must participate in a medical surveillance program as defined by OSHA at 29 CFR 1910.120 (f), 20 CFR 1910.134 (if respirators worn), and blood lead level screening in accordance with 29 CFR 1926.62. All personnel working at the Site will also possess current safety and health training as defined by OSHA at 29 CFR 1910.120.

6.1 MEDICAL SURVEILLANCE

<u>Initial Medical Exams</u>: All potentially exposed personnel and respirator users must have completed a comprehensive medical examination prior to assignment, and periodically thereafter as defined by applicable OSHA Regulations. The initial and periodic medical examinations may include the following elements:

- Medical and occupational history questionnaire;
- Physical examination;
- Complete blood count, with differential;
- Liver enzyme profile;
- Blood lead levels,
- Chest X-ray, at a frequency determined by the physician;
- Pulmonary function test;
- Audiogram;
- Electrocardiogram for persons older than 45 years of age, or if indicated during the physical examination;
- Drug and alcohol screening, as required by job assignment;
- Visual acuity; and
- Follow-up examinations, at the discretion of the examining physician.

The examining physician provides the employer and employee with a letter summarizing his findings and recommendations, confirming the worker's fitness for work and ability to wear a respirator. Documentation of medical clearance will be available for each employee during all project site work. Medical clearance will also include the most recent fit testing for all respirator users, current within the last six months.

Subcontractors will certify that all their employees have successfully completed a physical examination by a qualified physician. The physical examinations must meet the requirements of 29 CFR 1910.120, 29 CFR1926.62, and 29 CFR 1910.134. Subcontractors will supply copies of the medical examination certificate for each on-site employee.

<u>Other Medical Examinations:</u> In addition to pre-employment, annual, and exit physicals, personnel may be examined:

- At employee request after known or suspected exposure to toxic or hazardous materials;
- At the discretion of the client, HS professional, or occupational physician in anticipation of, or after known or suspected exposure to toxic or hazardous materials; and
- At the discretion of the occupational physician.

<u>Periodic Exam:</u> Following the initial examination, all site personnel must undergo a periodic examination, similar in scope to the initial examination.

<u>Medical Restrictions:</u> When the examining physician identifies a need to restrict work activity, the employee's supervisor must communicate the restriction to the employee and the Site Manager. The terms of the restriction will be discussed with the employee and the Site Manager.

6.2 HEALTH AND SAFETY TRAINING

All personnel working at the Site will participate in health and safety training, including:

- Initial 40-hour HAZWOPER training;
- Annual eight-hour HAZWOPER training following the initial 40-hour training;
 and

• The SSO will also conduct daily briefings with all site employees covering the activities and safety procedures.

Documentation of training will be available for each employee during the Site Investigation.

7.0 PERSONAL PROTECTIVE EQUIPMENT

7.1 PURPOSE/APPROACH

A critical aspect of field crew safety is appropriate personal protective equipment (PPE). PPE refers to the types of footwear, headwear, eyewear, ear wear, coveralls, gloves and respiratory protection each individual will wear while performing a specific task(s) and exposed to a particular chemical(s) at a given concentration(s). The levels of PPE are referred to as Level D, Level C and Level B; with Level D requiring the least amount of PPE and Level B the most.

The SSO will decide when it is necessary to upgrade, downgrade or modify the existing level of protection based on field monitoring and action levels described in Section 4.0. The SSO will make entries in the health and safety field book detailing each days PPE, task and if the level of PPE is modified, the reason for each change. All investigation field activities will be performed as a minimum in Level D. Each level's PPE requirements may be modified by the SSO as needed. The different levels of PPE and equipment required at each level are described in the following sections and are based on 29 CFR 1910.120.

7.2 LEVEL D PROTECTION

Level D PPE will consist of the following:

- Coveralls or a work uniform affording protection for nuisance contamination;
- Steel-toe, steel-shank work boots;
- Safety glasses; and
- Hard hat (if working around equipment or machinery).

Note: Hand washing is imperative following any contact with soils.

Optional Equipment or as Required by the SSO

- Disposal or rubber outer boots.
- Chemical resistant gloves (recommend nitrile, neoprene, or latex).
- · Hearing protection.
- Disposable outer chemical coveralls.

7.3 LEVEL C PROTECTION

Level C PPE will consist of:

- Full-face air purifying respirator (APR) equipped with appropriate P100 (HEPA equivalent) and/or organic vapor cartridges. Note: All personnel requiring respiratory protection must be medically approved and "fit-tested" with the respirator to be used. Appropriate powered air-purifying respirators (PAPR) may be utilized if specified by the SSO. Only with the approval of the SSO can half-mask air purifying respirators be donned. Chemical cartridges will be changed on a daily basis;
- Chemical-resistant clothing such as Tyvek®, poly-coated Tyvek® or Saranex®;
- Outer chemical-resistant (recommend nitrile or neoprene) gloves and inner latex surgical gloves (outer gloves should be taped to the clothing sleeve):
- Steel-toe, steel-shank work boots with Tyvek® or rubber boot coverings (over boots should be taped to clothing leg); and
- Hard hat (if working around equipment or machinery).

Optional Equipment as Required by the SSO

- Escape SCBA.
- Hearing protection.

7.4 LEVEL B PROTECTION

Level B PPE will consist of:

- Self-contained breathing apparatus (SCBA) in a pressure demand mode, or supplied air with escape SCBA in the pressure demand mode;
- Chemical-resistant clothing such as Tyvek®, poly-coated Tyvek® or Saranex®;
- Outer chemical-resistant (recommend nitrile or neoprene) gloves and inner latex surgical gloves (outer gloves should be taped to the clothing sleeve); and
- Steel-toe, steel-shank work boots with rubber over boots (over boots should be taped to clothing leg); and
- Hard hat (if working around equipment or machinery).

8.0 SITE OPERATION AREAS AND DECONTAMINATION

Site operation areas will be formally set up for all field activities. Personal decontamination procedures will be closely adhered to upon entering or leaving all work areas. Section 8.1 describes the three zones used to control site operation areas and Section 9.0 describes decontamination procedures.

8.1 SITE OPERATION AREAS

A three-zone control system will be used during activities as determined necessary by the SSO. The purpose of the zones is to control the flow of personnel to or from potentially contaminated work areas. Guidelines for establishing these zone/areas are as follows:

Exclusion Zone (EZ): Primary exclusion zones will be established around each field activity and, at a minimum, this zone will radiate to a distance of 25 feet from the point of operations. Appropriate personal protective equipment must be worn in this zone. This zone will be separated from the contaminant reduction zone by cones or barrier tape to prevent personnel from entering the exclusion zone boundary without appropriate protective equipment or leaving without proper decontamination.

<u>Contaminant Reduction Zone (CRZ)</u>: The CRZ is the transition area between the EZ and the Support Zone (clean area). All personnel and equipment must be decontaminated in the CRZ upon exiting the EZ and before entering the Support Zone. The CRZ will be set up along the perimeter of the EZ at a point upwind of field activities.

<u>Support Zone (SZ):</u> The support zone is considered to be uncontaminated; as such, protective clothing and equipment are not required but should be available for use in emergencies. All equipment and materials are stored and maintained within this zone. Protective clothing is donned in the support zone before entering the contaminant reduction zone.

9.0 DECONTAMINATION GUIDELINES

In the situation where work areas are controlled using the three-zone concept, all personnel must exit the EZ through an established CRZ. At a minimum, CRZ provisions will include a potable water supply, wash buckets or sprayers, cleaning tools, hand soap and clean towels. The applicable CRZ sequence of events should include:

- Wash outer boots, coveralls and outer gloves;
- Remove any outer boot or glove tape;
- Remove outer boots and either store or properly dispose of the boots;
- Re-clean and remove outer gloves. If gloves will be reused, inspect and stage the gloves; otherwise properly dispose of the gloves;
- Remove chemical resistant coveralls with care so that hands or inner clothing do not come in contact with any contaminated surfaces. Properly dispose of coveralls;
- Remove respirator and stage in CRZ area. Respirators shall be cleaned and disinfected with a sanitizing agent between uses;
- Remove and dispose of inner gloves; and
- Thoroughly wash hands and face.

All contaminated equipment (such as the drill rig, excavator/back-hoe, tools and sampling equipment, etc.) will be thoroughly decontaminated prior to leaving the EZ. The extent of the decontamination (such as a separate decontamination pad) will be determined by the SSO. The SSO will be responsible for inspecting the decontamination of all equipment prior to leaving the EZ and the Site.

For fieldwork not using the three-zone concept (e.g., soil and sediment sampling with hand-operated equipment) portable wash stations will be utilized for easy and efficient access. The wash station shall consist of a potable water supply, hand soap and clean towels. Portable sprayer units filled with Alconox® solution (or equivalent) and potable

water will also be available to wash and rinse off grossly contaminated boots, gloves and equipment. The SSO will monitor decontamination procedures to ensure their effectiveness. Modifications of the decontamination procedure may be necessary as determined by the SSO.

9.1 MANAGEMENT OF GENERATED WASTES

All wash and rinse waters, discarded health and safety equipment and discarded sampling equipment will be segregated and placed in appropriate containers, as required. These containers will be properly labeled and stored in a secure area on site while arrangements are made for disposal.

10.0 SITE ACCESS AND SITE CONTROL

Access to site activities will be limited to authorized personnel and should be coordinated with the site Owner. Such authorized personnel include contractor's employees, subcontractors and representatives of the site Owner. However, access into the established contaminant reduction and exclusion zones will be limited to those authorized personnel with required certifications and wearing appropriate personal protective equipment. The exclusion zones will be monitored by the SSO to ensure personnel do not enter without proper personal protection equipment.

All work zones will be clearly marked and roped or fenced off to insure that non-authorized personnel are kept at a safe distance. Excavations or trenches/ditches will be secured during off-hours and any stockpiled soils will be covered with plastic.

11.0 EMERGENCY RESPONSE

In the event of an emergency, the SSO will coordinate response activities. Appropriate authorities will be notified immediately of the nature and extent of the emergency. Table 11-1 provides emergency telephone numbers that will be posted within the support zone or any other visible location. Directions to the nearest hospital are also included on Table 11-1.

11.1 RESPONSIBILITIES

The SSO will be responsible for initiating response to all emergencies, and will:

- 1. Notify appropriate individuals, authorities and health care facilities of the activities and hazards of the field activities.
- 2. Ensure that the following safety equipment is available: eyewash provisions, first aid supplies and fire extinguisher.
- 3. Have working knowledge of all safety equipment.
- 4. Ensure that directions of the most direct route to the nearest hospital is present with the emergency telephone numbers.
- 5. For a release incident or major vapor emission, determine safe distances and places of refuge.
- For a release incident or major vapor emission, contact the local emergency response coordinator (Fire Department) and NYSDEC Spill Response (if appropriate).

Table 11-1 Emergency Contacts City of Binghamton

Project Health and Safety Coordinator:		
	TBD	
Project Director:		
	Jim Blasting	
Project Manager:		
	Matt Bell	
Ambulance	911	
Hospital (Binghamton General)	(607) 762-2231	
Fire Dept.	911	
NYSDEC Spill Hotline	1-800-457-7362	
Police (New York State Police)	911	
Police (City of Binghamton)	911	
Directions to Hospital: From the site: (MapQuest directions to follow)		
Start out going SOUTH on W. State Street toward N. Way Street	1.0 miles	
Turn slight left onto NY-434 W.	0.5 miles	
Turn left onto S. Washington Street	<0.1 miles	
Turn left onto Mitchell Avenue	0.3 miles	
End at Binghamton, NY 13903-1617, US		

11.2 ACCIDENTS AND INJURIES

In case of a safety or health emergency at the Site, appropriate emergency measures will immediately be taken to assist those who have been injured or exposed and to protect others from hazards. The SSO will be immediately notified and will respond according to the seriousness of the injury.

11.3 SITE COMMUNICATIONS

Telephones (either temporary landlines or cellular) will be located prior to the start-up of field activities, and will be used as the primary off-site communication network. Radios will be used at the Site, as needed.

11.4 RESPONSE EVALUATION

The effectiveness of response actions and procedures will be evaluated by the SSO. Improvements will be identified and incorporated into this and future plans.

12.0 ADDITIONAL SAFETY PRACTICES

The following safety precautions will be enforced during the field activities.

- 1. Eating, drinking, chewing gum or tobacco, smoking or any practice that increases potential hand-to-mouth transfer and possible ingestion of material is prohibited in areas designated as contaminated by the SSO.
- 2. Hands and face must be thoroughly washed upon leaving the work area and before eating, drinking or any other activity.
- 3. Whenever decontamination procedures for outer garments are in effect, the entire body should be thoroughly washed as soon as possible after the protective garment is removed.
- 4. No facial hair that may interfere with the effectiveness of a respirator will be permitted on personnel required to wear tight fitting respiratory protection. The respirator must seal against the face so that the wearer receives air only through the air purifying cartridges. Fit-testing shall be performed prior to respirator use to ensure a proper seal is obtained.
- 5. Even when wearing protective clothing, contact with potentially contaminated surfaces should be avoided when possible. One should not walk through puddles; mud or other discolored surfaces; kneel on ground; lean, sit or place equipment on drums, containers, vehicles or the ground.
- 6. Medicine and alcohol can enhance the effect from exposure to certain compounds. Alcoholic beverages will not be consumed during work hours by personnel involved in the project. Personnel using prescription drugs during the project may be precluded from performing specific tasks (e.g. operating heavy equipment) without authorization from a physician.
- 7. Personnel and equipment in the work areas will be minimized.

- 8. Work areas and decontamination procedures will be established based on prevailing site conditions.
- 9. Respirators will be issued for the exclusive use of one worker and will be cleaned and disinfected after each use.
- 10. Cartridges for air-purifying respirators in use will be changed on a frequency determined by the SSO, with detectable odor/breathing resistance or after each day's use, whichever is shorter.