# Chemical Pollution Resources, Inc.

# **Project Closure Report**

Project Name:Astro Electroplating, Inc.Focus Area:Ou-1, Ou2AProduct/Process:Groundwater IRM

#### **Prepared By**

Document Owner(s)	Project/Organization Role
Pat Enochs	Chemical Pollution Resources, Inc.

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#### 1 Introduction

#### Project Closure Report Purpose

The purpose of this document should document the work as specified in the Record of Decision 1-52-036. The document is believed to contain all necessary information required as specified in Section 5 of The New York State Guidance document DER-10

### 2 PROJECT CLOSURE REPORT GOALS

#### Project Closure Report Goals

This report is intended to provike the NYSDEC with the information and documents regarding the IRM and Record of Decision (1-52-036) The information contained in this report includes:

- A Description of the Remedy as constructed .
- Summary of all Remedial Work completed.
- Description of the changes to the plan and an explanation to inact said revisions
- Description of the significant problems encountered during the Construction and the resolutions
- Quantities concentrations of contaminants removed
- List of waste streams quantity of materials disposed and designated facility
- List of Objectives applied to the Remedial Action
- Table identifying pre and post remedial data
- As built of installed liner, piping and well pump
- Diagram of uncovered arfeas of concern which may contribute to contamination.

### **3 PROJECT CLOSURE REPORT SUMMARY**

#### 3.1 **Project Background Overview**

#### **Project Background Overview**

The Record of Decision for the site (1-52-036) identifies two

separate issues related to the contamination. Soil Remediation is

identified as Operable Unit 1. The preferred approach to remediate

the site was capping the existing source of contamination. Although this method only provides confinement and containment, the ROD also requires remedial efforts on the groundwater of the upper glacial aquifer which has been contaminated. This will be defined as Operable Unit 2. This document concentrates on the remedial tasks performed on the capping at this site.

As per Remedial Investigation and Feasibility Study (RIFS) and the order of consent (OOC) signed by the operator of Astro Electroplating Inc, a 60 mil High density Poly ethylene (HDPE) fabric was to be placed over an area thirty (30) feet by one hundred ten (110) feet on the eastern portion of the property (Figure 5), where the impacted dry wells once stood.

### 3.2 Summary of Remedial Actions

**Remedial Activity Description Liner** 

### Project Details OU 1

On or about November 14, 2006 Environmental Contracting Corp. mobilized to the site to install the cap over the area of concern. Initially the area was marked out by both private and public utility locators. The area of concern was saw cut and asphalt removed. The top asphalt layer was containerized and sent to an asphalt recycling plant. Once the asphalt was removed the area was excavated down to an elevation of two feet six inches below grade. On or about December 06, 2006, the area was prepared as

in this report. The area was leveled and compacted. Geotextile fabric (AASHTO M88 CL II) was installed at 2.5 fbgs. The southwest portion was graded up to accommodate for the sewer pipe.

Once the geotextile PVC fabric was installed, a four inch layer of clean sand was placed on top and compacted. Studs were installed along the eastern foundation wall in order to secure the cap fabric. The PVC fabric was spread out and inspected for tears, rips and punctures. The cap was placed into position and secured with stainless steel washers and bolts as specified. The north east and south edges of the cap were bent along the j channels as identified on the original plans, and they were covered with four inches of fine sand to hold it in place. In addition four inches of fine clean sand was also spread on top of the cap. The fill was compacted every six inch interval. Finally approximately three inches of RCA blend was installed and compacted.

The area was blocked off from traffic and allowed to settle. In March, 2007, the area was asphalted. At that time approximately one inch of RCA blend was removed by hand. Two inches of NYSDOT Type 6F asphalt were installed and sealed.

### 3.4 Description of Problems Identified during Liner Installation

Liner Install Issues

During the excavation, an open (and unexpected) 10 ft dia x 12 ft deep dry well (LP1) was found (refer to figure 1). An industrial discharge pipe (P1) was also found at 2 fbgs. P1 originated from the eastern wall and was pitched to a ware (W) at 3 fbgs. The ware was also connected to a sewer line (S1) at 6 fbgs. This installation will be used during the pilot plant OU2 to discharge treated wastewater to the sewer district.

The exposed drywell was sampled on November 14, 2006. The sample was analyzed for Suffolk County Priority Pollutants. Specifically, the parameters included volatile organics, semi volatile organics and metals. The sample indicated the dry well had been impacted to similar contaminants which caused the initial source from Astro Electroplating. The Chemicals of Concern (COC) were copper, chrome and nickel. The drywell was cleaned to a depth of approximately twenty two feet. The soils were removed and stockpiled on an impermeable layer. This soil together with that excavated from a 2ft wide trench dug alongside the eastern wall were separated and handled as hazardous waste. A total of nineteen cubic yards of soil was removed from the dry well (See attached manifest). The depth was originally eighteen feet below grade. After source removal the depth was approximately twenty one feet below grade. An endpoint sample was taken. The end point sample was analyzed specifically for hexavalent chromium. Analytical results showed that the Cr(VI) was below one milligram per kilogram (1 mg/kg). Analytical results are enclosed in Attachment 3. The dry well was filled using clean fill (from segregated, onsite clean fill, as per attached results.)

Subsequent to the drywell abandonments (LP1) a 1.5" PVC pipe was installed in the area to connect the discharge of the well pump into the wastewater treatment area in the building.

The excavation also exposed ancillary piping to and from LP1. Pipe P2 discharged from the facility and entered the western portion of the drywell structure. P3 pipe was also originating out of the facility. This piping ran east and then south past the point of the capping excavation. Further investigation and excavation revealed another pipe P4 originating from the facility and connected to the P3. P3was traced to an area approximately ten feet where it ended in the soil. There was an additional pipe P5 connected to the line which ran east. P5 was traced to an abandoned dry well DW2 approximately thirty feet east of the building. Figure 1, enclosed, indicates these found structures. The abandoned dry well DW2 showed signs of visual discoloration and may need to be addressed as a potential source of contamination in the future.

All pipes discovered were removed and the areas potentially impacted were excavated and stockpiled on an impervious fabric, awaiting proper disposal.

### 3.5 OU 2A

#### Summary of IRM Groundwater Pump Installation

On or about July 18, 2005 installation of a four inch well was placed on Town of Babylon property near the corner of Central Ave (running east / west and Engineers Lane (running north / south) The well was originally designed to be placed on private property at 8 Engineers Lane in Farmingdale, NY. Access was difficult to obtain from the owners of this property. Since the original position of the well was approximately ten feet south of the town of Babylon right of way it was decided to place the well on public property. A permit was granted by the Town of Babylon department of Public works. In order to place the well on the right of way several issues were to be addressed. One main issue was the location of overhead power lines. The Local Electric Provider was contracted to re-route electric around this area. This would allow a Drill rig to place the well on the easement approximately ten feet in width. The Drill Installer was Land Air Water Environmental. The drill rig encountered no refusal. The original drill boring log indicated approximately one foot of top soil. From one foot to thirty five feet was moist granular sand and gravel. Groundwater was encountered at approximately thirty seven feet. Drilling continued to a depth of forty five feet below grade. Pvc screening was placed in the well at approximately forty four feet to 32 feet below grade. The remainder of the well consisted of 4 inch pvc casing. The well was supported by pumping bentonite around the casing. A cylindrical cement shroud was placed on top of the well and secured with a poured concrete slab. A steel well cover was also installed. After the installation, the well was developed pumping approximately one hundred sixty gallons of water from the well.

On July 19, The well was purged extracting approximately 15 gallons of water from the well. A sample was taken and submitted to Long Island Analytical Laboratory the analysis report is attached (appendix\_\_\_)

On or about November 19, 2007 the piping for the IRM was installed by Environmental Contracting Services of Patchogue, NY. The piping was installed from the well mentioned above to the Waste Water Treatment facility located at the now unoccupied Astro facility. The piping was installed in a trench approximately four feet below grade along the Town of Babylon right away adjacent to Central ave. The pipe runs west to the easement for 170 central Ave and turns at 90 degrees. The piping runs approximately 75 feet west and intersects piping previously installed under the pvc liner. The piping and pump along with the wiring was installed according to the specifications identified by Moraghen Engineering (appendix\_\_\_)

### 3.6 Discription of Problems of Implementation of OU2A

Problems regarding OU2A

Delays of installation of the piping were caused due to weather, and obtaining the proper town permits for excavation on the Babylon right of way. In addition to these logistical issues there was several barriers regarding the SCDPW allowing the permit as agreed in the original negotiations. After the installation of the piping a P.E. was contracted to obtain the Discharge Permit and provide the Suffolk County Department of Public Works with the data requested. After review there was another delay regarding the witnessing of the Waste Treatment System in operation. The Groundwater at the time did not exceed the parameters of the POTW and no further treatment was necessary. Pat Enochs argued that the system at that time had the capacity to hold two days worth of storage and if the effluent exceeded discharge parameters the treatment system would need approximately 3000 gallons in order to operate properly. It was unnecessary to operate the system based on the low level of contamination. In September of 2009 the Discharge Permit was granted for six months.

The IRM pump system began operation on September 14, 2009. The self monitoring required by the SCDPW permit is attached in Appendix \_\_\_\_

#### 4 Site Management

#### 4.1 Site Management OU 1

#### **Operations and Maintenance OU1**

The operations and maintenance of this unit include administrative and physical inspections. The Record of decision also requires the liner be replaced every ten years until the contamination of the area meets acceptable levels based on NYSDEC guidelines.

#### 4.2 Site management OU2A

#### Operations and Maintenance OU2A

• The Operations and Maintenance of OU2A is described in the SCDPW Permit 507-711-00001B. This permit requires self monitoring of Chromium, Copper, and Nickel along with Meter Readings of the amount discharged. Prior to the renewal the permit also required an operator onsite during operation. The Record of Decision required operation of this system while the facility was processing. In 2005 the Operator was asked to leave the facility by the property owner. Since that time operations of the facility have ceased. Recent correspondence from the Department of Environmental Conservation has provided a directive to operate the system for at a minimum of five days a week and eight hours per day. This correspondence has been discussed with Astro Electroplating and agreed to operate the system under these conditions. We Anticipate

#### 5 Certification

#### 5.1 Certification

P.E. Certification

I, <u>Ariel Czemerinski</u>, am currently a registered professional engineer licensed by the State of New York. I have primary direct responsibility for implementation of the remedial program contained in the Record of Decision 1-52-036 for the Former Astro Electroplating, Inc. Site, located at 170 Central Avenue, Farmingdale, NY 11735.

I certify that the Operational Unit#1 Status Report presented in this report accurately depicts the activities so far conducted.

I certify that when this report makes reference to the ROD, that it refers to the Record of Decision 1-52-036 prepared and approved by NYSDEC in March 2001.

I certify that, based on the documentation and photographs provided to me relating to the remedial activities at the subject site, that this report is a true and accurate depiction of the activities so conducted.

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2). Article 130, New York State Education Law

### 6 PROJECT CLOSURE REPORT APPROVALS

Prepared By Patrick Enochs CHMM / CET ([Job Title])

Approved By

([Job Title])

([Job Title])

([Job Title])

Approval Date \_\_\_\_\_

### 7 APPENDICES

### 7.1 Waste Removal OU1

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### 7.2 Waste Removal

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### 7.3 As Built Liner / Piping Installation



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### 7.4 LP-1 Pre Remedial analysis

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LONG		USEPA# NY01273 CTDOH# PH-0284
		AIHA# 164456
LABORATORIES INC.		PADOH# 68-2943
ONORPOWS ANALYTICAL SOLUTIONS TODAY"		
1 of 5 pages		
		November 17, 2006
Chemical Pollution Resour	\$es	
Patrick Enochs		
29 Roosevelt Avenue Massanegua Park, New Yo	ork 11762	
massapoqua raik, nen r		
Dear Mr. Enochs:		
Enclosed please fil	nd the Laboratory Analysis Report(s)	for sample(s) received on
November 14, 2006. Lo	ong Island Analytical Laboratories a	nalyzed the samples on
November 17, 2006 for the	tollowing:	
CLIENT ID		SIS
DW North Side	LP-1 SCDH Volatiles, Semi-V	olatiles and Metals
Samples received at 5°C.		
If you have any of convenience. Report shall	questions or require further informat	tion, please call at your
the laboratory. Long Isla	and Analytical Laboratories would life	ke to thank you for the
opportunity to be of service	to you.	••••
Best Regards,		
Long Island Analytic	cal Laboratories, Inc.	
110 Co Phone (631) 472-34(	IIN Drive • Holbrook, New York 1	11741
(001) 412-041	10 1 47 (001) 472-0505 • Email	

#### **Confidential** OU1 Construction Completion Rreport 032210.docx Last printed on 2/1/2016 12:22:00 PM

	urses C	lient ID: 170 Cent	ral Ave. Farmin	gdale
Date received: 11/14/06	- <del></del>  :	aboratory ID: 1124	4694	
Date extracted: 11/15/06	N	atrix: Soil		
Date analyzed: 11/15/06	E	LAP #: 11693		
	S.C.D.H	I. VOLATILES		
PARAMETER	CAS	No. MDL	RESULTS	ug/kg
DICHLORODIFLUOROMETHANE	75-71	-8 5 ug/kg	<5	
CHLOROMETHANE	74-87	-3 5 ug/kg	<5	
VINYL CHLORIDE	75-01	4 5 ug/kg	<5	
BROMOMETHANE	75.00	-9 5 Ug/kg		
	75-00	-3 5 ug/kg	<5	
1 1-DICHLOROFEDOROMETHANE	75-35	-4 5 ug/kg	<5	
METHYLENE CHLORIDE	75-09	-2 5 ug/kg	<5	
trans-1.2-DICHLOROETHENE	156-60	-5 5 ug/kg	<5	
1.1-DICHLOROETHANE	75-34	-3 5 ug/kg	<5	
2,2-DICHLOROPROPANE	594-20	)-7 5 ug/kg	<5	
cis-1,2-DICHLOROETHENE	156-59	-2 5 ug/kg	<5	
CHLOROMETHANE	87-66	-5 5 UQ/KQ	<5	
1.1.1-TRICHLOROETHANE	71-55	-6 5 ug/kg	<5	
CARBON TETRACHLORIDE	56-23	-5 5 ug/kg	<5	
1,1-DICHLOROPROPENE	563-58	3-6 5 ug/kg	<5	
BENZENE	71-43	-2 5 ug/kg	<5	
1,2-DICHLOROETHANE	107-0	3-2 5 ug/kg	<5	
	79-01	-6 5 ug/kg	<5	
	74.95	-5 5 Ug/kg	<5	
BROMODICHLOROMETHANE	75-27	-4 5 ug/kg	<5	
cis-1,3-DICHLOROPROPENE	10061-0	01-5 5 ug/kg	<5	
TOLUENE	108-8	3-3 5 ug/kg	<5	
trans-1,3-DICHLOROPROPENE	10061-	02-6 5 ug/kg	<5	
1,1,2-TRICHLOROETHANE	79-00	-5 5 ug/kg	<5	
	127-14	5-4 5 UG/Kg	45	
	124-4	8-1 5 ug/kg	<5	
1.2-DIBROMOETHANE	106-9	3-4 5 ug/kg	<5	
CHLOROBENZENE	108-9	0-7 5 ug/kg	<5	
1,1,1,2-TETRACHLOROETHANE	630-2	0-6 5 ug/kg	<5	
ETHYLBENZENE	100-4	1-4 5 ug/kg	<5	
BROMOFORM	100-4	2-5 5 Ug/kg	<5	
BROMOFORM	10-20	Calculate	d on a wet weight	hasis

#### Project Closure Report

3 of 5 pages	Client II	170 Centr	al Ave. Farmingdale	
Client: Chemical Pollution Resours	es Chent I	(DW North	h Side LP-1)	
11/14/06	Laborat	ory ID: 1124	694	
Date received: 11/15/06	Matrix:	Soil		
Date extracted: 11/15/06	ELAP #	: 11693		ļ
S.	.C.D.H. VO	LATILES		
DARAMETER	CAS No.	MDL	RESULTS ug/kg	1
ISOPROPYLBENZENE	98-82-8	5 ug/kg	<5	1
BROMOBENZENE	108-86-1	5 ug/kg	<5	
1,1,2,2-TETRACHLOROETHANE	96-18-4	5 ug/kg	<5	
1,2.3-TRICHLOROPROPANE	103-65-1	5 ug/kg	<5	-
n-PROPTLBENZENE	95-49-8	5 ug/kg	<5	-
4-CHLOROTOLUENE	106-43-4	5 ug/kg	<5	1
1.3.5-TRIMETHYLBENZENE	108-67-8	5 ug/kg	<5	1
tert-BUTYLBENZENE	98-06-6	5 ug/kg	<5	1
1,2,4-TRIMETHYLBENZENE	95-63-6	5 ug/kg	<5	1
SEC-BUTYLBENZENE	541-73-1	5 ug/kg	<5	
	99-87-6	5 ug/kg	<5	4
1 4-DICHLOROBENZENE	106-46-7	5 ug/kg	<5	-
1.2-DICHLOROBENZENE	95-50-1	5 ug/kg	<5	1
n-BUTYLBENZENE	104-51-8	5 ug/kg		1
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/kg	<5	1
1,2,4-TRICHLOROBENZENE	87-68-3	5 ug/kg	<5	1
HEXACHLOROBUTADIENE	91-20-3	5 ug/kg	<5	]
1.2.3-TRICHLOROBENZENE	87-61-6	5 ug/kg	<5	4
2-CHLOROETHYLVINYL ETHER	110-75-8	5 ug/kg	<5	4
FREON 113	76-13-1	5 ug/kg	<5	-
p-DIETHYLBENZENE	105-05-5	5 ug/kg	<5	1
p-ETHYLTOLUENE	622-96-8	5 ug/kg	<5	1
1,2,4,5-TETRAMETHYLBENZENE	67-64-1	50 ug/kg	<50	1
	75-45-6	5 ug/kg	<5	]
METHYL ETHYL KETONE	78-93-3	10 ug/kg	<10	4
METHYL ISOBUTYL KETONE	108-10-1	5 ug/kg	<5	-
p & m-XYLENE	1330-20-7	10 ug/kg	<10	-
0-XYLENE	1330-20-7	5 ug/kg	<5	1
MTBE MDL = Minimum Detection Limit.	1034-04-4	Calculat	ed on a wet weight basis	-
		Mich	al Veraid	,
		Michael	Veraldi-Laboratory Direc	tor
LONG ISLAND ANALYTICAL				
LABORATORES INC.	110 Colin Drive	+ Holbrook,	New York 11741	ic.com
RIOWS ANALYTICAL SOLUTIONS TODAT* Phone (631) 4	12-3400 • Fax	(031) 4/2-85	00 - Email, LIAL Within	0.0010

NOV-17-2006 13:19 L.I. ANALYTICAL LABS.INC 631 472 8505 P.04 4 of 5 pages **Client: Chemical Pollution Resourses** Client ID: 170 Central Ave. Farmingdale (DW North Side LP-1) <<Laboratory ID: 1124694 Date received: 11/14/06 ÷ Date extracted: 11/16/06 Matrix: Soil Ś ÷ ELAP #: 11693 Date analyzed: 11/16/06 14 SCDH SEMI-VOLATILE ANALYSIS . 1111 Results ug/kg Parameter CAS No. MDL <40 120-12-7 40 ug/kg Anthracene Fluorene 86-73-7 40 ug/kg <40 . <40 Phenanthrene 85-01-8 40 ug/kg Pyrene 129-00-0 40 ug/kg <40 Acenaphthene 83-32-9 40 ug/kg <40 • : <40 Benzo(a)Anthracene 56-55-3 40 ug/kg : 40 ug/kg <40 Fluoranthene 206-44-0 `: Benzo(b)Fluoranthene 205-99-2 40 ug/kg <40 207-08-9 <40 Benzo(k)fluoranthene 40 ug/kg 218-01-9 <40 Chrysene 40 ug/kg <40 Benzo(a)Pyrene 50-32-8 40 ug/kg 191-24-2 <40 Benzo(g,h,i)Perylene 40 ug/kg . Indeno(1,2,3-cd)Pyrene 193-39-5 <40 40 ug/kg 40 ug/kg Dibenzo(a,h)Anthracene 53-70-3 <40 MDL = Minimum Detection Limit. Calculated on a wet weight basis . Michael Verail 14 : } Michael Veraldi-Laboratory Director : 1 2 LONG ISLAND ANALYTICAL LABORATORIES INC. 110 Colin Drive • Holbrook, New York 11741 TOHORBOW ANALYTICAL SOLUTIONS TODAY" Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com Receipt 1, Image 4 of 6

NOV-17-2006 13:19 L.I. ANALYTICAL LABS.INC 631 472 8505 P.05 ÷. 5 of 5 pages 1 **Client: Chemical Pollution Resourses** Client ID: 170 Central Ave. Farmingdale • 1 (DW North Side LP-1) Laboratory ID: 1124694 Date received: 11/14/06 Date extracted: 11/15, 11/16, 11/17/06 Matrix: Soil Date analyzed: 11/15, 11/16, 11/17/06 ELAP #: 11693 METALS ANALYSIS ; · RESULTS mg/kg MDL PARAMETER 1.65 mg/kg ĸ SILVER, Ag <1.65 ŝ ARSENIC, As 1.65 mg/kg 5.64 <1.65 BERYLLIUM, Be 1.65 mg/kg 1 1.00 mg/kg <1.00 CADMIUM, Cd 2,596 CHROMIUM, Cr 1.65 mg/kg 273 COPPER, Cu 1.65 mg/kg 0.020 mg/kg < 0.020 MERCURY, Hg NICKEL, Ni 1.65 mg/kg 33.3 : • 382 LEAD, Pb 1.65 mg/kg MDL = Minimum Detection Limit. Analysis by SW-846 Method 6010 Calculated on a wet weight basis ł ţ Michael Veral ; Michael Veraldi-Laboratory Director τ. : : ; . ŝ ÷ LONG ANALYTICAL LABORATORES INC. 110 Colin Drive • Holbrook, New York 11741 Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com "TOMOREOWS ANALYTICAL SOLUTIONS TODAY" Receipt 1, Image 5 of 6

### 7.5 LP-1 Post Remedial analysis

	NUV-22-2006 14:47	L.I. ANALYTICA	AL LABS.INC	631 472 8505	P.02
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1	Client: Chemical I	Pollution Resources	Client ID: 170 Ce	ntral Ave. Farminguale	
-	Data maniundi 11	114/06*	Laboratory ID: 11	24694	
	Date extracted: 1	1/22/06	Matrix: Soil		
	Date analyzed: 11	/22/06	ELAP #: 11693		
		METAL	S ANALYSIS		
	PARAN	NETER	MDL	RESULTS mg/kg	
	CHROMIUM-HE		3.00 mg/kg	< 1.00	
	Performed by SW-846 M	Nethod 6010			
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			Michael	Veraldi-Laboratory Director	
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### 7.6 Soil used as Backfill (from onsite)

	ONG LAND NALYTICAL				NYSDOH ELAP# 11693 USEPA# NY01273 CTDOH# PH-0264 AIHA# 184455
	ABORATORES	NC.			NJDOH# NY012 PADOH# 68-2943
1 of 2	a <b>xalfrical polyrions</b> 2 pages	FORMY*			
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Dec Dec	Enclosed ple cember 6, 2006 cember 8, 2006 f	ease find the Labo 6. Long Island for the following:	pratory Analysis Rep Analytical Laborato	ort(s) for sample( ries analyzed the	s) received on samples on
Г	CLI	ENT ID		NALYSIS	
ſ	Cor	mposite	Total Antim	ony, Arsenic, Cop	ber.
L. San	nples received at 6	6°C.	Chromium, L	eau, Nickel & Tha	ilium
con All Reg Lor ser	If you have nvenience. Long reported results port shall not be ng Island Analyt vice to you.	e any questions g Island Analytical e meet the require reproduced exceptical Laboratories	or require further i Laboratories Inc. is ments of the NELAF t in full, without the would like to thank	nformation, pleas a NELAP accred standards unles written approval of you for the oppo	e call at your ited laboratory. s noted above. the laboratory. tunity to be of
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<b>A</b> ( )			
2 of 2 pages			
Client: Chemical Pollution Pos			
energie energie and on biolition Res	Client ID:	170 Central Avenue	
Date received: 12/6/06	Laboraton	(Composite)	
Date extracted: 12/8/06	Matrix: So	1	
Date analyzed: 12/8/06	ELAP #: 1	1693	
fM.	ETALS ANALYSI	S	
PARAMETER	MOL	DECUM TO	
ARSENIC, As	1.65 mg/kg	RESULIS mg/kg	
CHROMIUM, Cr	1.65 mg/kg	22.0	
COPPER, Cu	1.65 mg/kg	22.7	
NICKEL, Ni	1.65 mg/kg	16.3	
LEAD, Pb	1.65 mg/kg	10.5	
ANTIMONY, Sb	1.65 mg/kg	<1.65	
MDL = Minimum Detection Limit	1.65 mg/kg	<1.65	
L THALIUM, TI MDL = Minimum Detection Limit. Performed by SW-846 Method 6010	1.65 mg/kg	<1.65 Calculated on a wet weight basis	
L THALIUM, TI MDL = Minimum Detection Limit. Performed by SW-846 Method 6010	1.65 mg/kg	<1.65 Calculated on a wet weight basis	or.
CNG LAND NALYTICAL BORATORIES INC.	<u>110 Colin Drive • Hold</u> 472-3400 • Fax (631)	<1.65 Calculated on a wet weight basis Michael Veraldi-Laboratory Director bichael Veraldi-Laboratory Director 0006, New York 11741 472-8505 • Email: LIAL@lialing.c	or com

	Astro Electro Plating Inc
	170 Central Ave Farmingdaler N9
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### 7.7 Piping sketch of underground piping and structures

### 7.8 Engineering Changes OU1

10/22/2006 03:27 6316662019	BRIAN T MORAGHAN PE PA	E 01
MORAGHAN ENGINEERING, PC		
ENGINEERS-ARCHITECTS PERMIT EXPEDITERS		
	BOPETTAS BU BREATWATERS, NY I PH (639)-6667 FAX (639)-6667 BMORAGI IAN@MORAGIIANEN GREGO	715, 718 714 715 DM
Chemical Pollution Resources, Inc. Attention: Mr. Pat Enochs 29 Roosevelt Av. Massapequa Park, NY 11762	Monday, October 23, 200	6
Subject: Modifications to liner capping protocol for the Farmingdale, NY.	e Astro Electro Plating facility located in	
Dear Mr. Enochs:		
At your request we reviewed the facility plans that wer Engineers, Rev. 2.0 dated 6/20/2003, entitled "Extracti the above ref. facility and Noted the following:	re prepared by Nelson & Pope Consulting ion Well and Capping System Plans and Detail	s" for
<ul> <li>The detail shown on sheet 5 of 5 entitled "Mec rev. 2.0 dated 8/18/03 requires that the '/' x 2' However, in our opinion a high strength hard p material may used as an alternate in lieu of the performance of the Flat Bar attachment. However washer under the head of the stainless steel and Neoprene Gasket Cement IAW the approved p</li> </ul>	hanical Attachment to Concrete (Single Liner) <sup>7</sup> Flat Bar be manufactured from Stainless Stee lastic-based material such as an HDPP or HDF Stainless Steel with no impact to the overall ver we recommend using the Stainless Steel flat hor bolt, with the Closed cell Neoprene Gaske lans.	", 2C It t, and
<ul> <li>Section views AA &amp; BB of sheet 5 of 5, rev. 2. Liner be installed approx. 2' below the existing existing sub-grade, and capped with approxima protocol for the liner installation would include</li> </ul>	0 dated 8/18/03 require that the new Poly Flex 5° thick finished road way surface, over the tely 2 feet of sand. In our opinion a more opting the following:	nal
<ol> <li>Excavate down approximately 2'-6" an the approved plans, and install a layer of the existing compacted sub-grade. The the filter fabric. The sides of the trench in order to obtain better soil stability in</li> <li>After installing the filter fabric, we recor- thick sub-layer of clean fine sand, along the top of the filter fabric to act as a firm</li> </ol>	d create the U shaped Anchor Trench as shown of AASHTO M88 CL II non woven filter fabric entire U shaped anchor trench must be lined w may be sloped @ 45 degrees to resemble a has the trench if necessary. bommend lining the haunched shape trench with g with a 4" thick sub-layer of clean fine sand o m bedding for the Poly Flex Liner.	n on c over ith inch, a a 4" ver
Page 1 of	2	

PAGE 02 BRIAN T MORAGHAN PE 6316662019 10/22/2006 03:27 MORAGHAN ENGINEERING, PC ENGINEERS-ARCHITECTS-PERMIT EXPEDITERS 500 PETERS BLVD. BRICE ITWA STR.5, NY 1178 PH (631) 666-7714 TAX (631) 666-7715 TAX (631) 666-7715 TIMOR ACHANIMMOR ACHANENGICLCOM 3. Now install the Poly Flex Liner over the 4" thick sub-layer of clean fine sand, insuring that the entire haunched shape trench is wrapped with the Poly Flex Liner. This 4" thick sublayer of sand will act as a firm bedding to prevent liner rupture from any potential aggregates in the sub-grade below. 4. Next install a 4" thick layer of clean fine sand over the top of the Poly Flex Liner, and cap the 4" top layer of fine sand with a layer of filter fabric, than back fill 20" with a NYSDOT RCA blend (compacted in 2 equal lifts). 5. Install a final 2" thick asphalt Top Coat (NYSDOT Type 6 F) to match existing, and fill all saw cut areas with liquid asphalt filler as shown on the approved plans. This protocol in our opinion will provide a more stable base for the Poly Flex Liner, and provide a more robust Sub-grade in the areas of repaired asphalt roadway. If you have any questions concerning our assessment of this project please contact me personally. Page 2 of 2 Receipt 1, Image 2 of 2

### 7.9 Groundwater Analysis 7/19/2005

2 of 9 pages

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/20/05	Matrix: Liquid
Date analyzed: 7/20/05	ELAP #: 11693

#### **EPA METHOD 8260**

Parameter	CAS No.	MDL	Results ug/L
BENZENE	71-43-2	0.7 ug/L	<0.7
BROMOBENZENE	108-86-1	5 ug/L	<5
BROMOCHLOROMETHANE	74-97-5	5 ug/L	<5
BROMODICHLOROMETHANE	75-27-4	5 ug/L	<5
BROMOFORM	75-25-2	5 ug/L	<5
BROMOMETHANE	74-83-9	5 ug/L	<5
n-BUTYLBENZENE	104-51-8	5 ug/L	<5
sec-BUTYLBENZENE	135-98-8	5 ug/L	<5
tert-BUTYLBENZENE	98-06-6	5 ug/L	<5
CARBON TETRACHLORIDE	56-23-5	5 ug/L	<5
CHLOROBENZENE	108-90-7	5 ug/L	<5
CHLORODIBROMOMETHANE	124-48-1	5 ug/L	<5
CHLOROETHANE	75-00-3	5 ug/L	<5
CHLOROFORM	67-66-3	5 ug/L	<5
CHLOROMETHANE	74-87-3	5 ug/L	<5
2-CHLOROTOLUENE	95-49-8	5 ug/L	<5
4-CHLOROTOLUENE	106-43-4	5 ug/L	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/L	<5
1,2-DIBROMOETHANE	106-93-4	5 ug/L	<5
DIBROMOMETHANE	74-95-3	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
DICHLORODIFLUOROMETHANE	75-71-8	5 ug/L	<5
1,1-DICHLOROETHANE	75-34-3	5 ug/L	<5
1,2-DICHLOROETHANE	107-06-2	5 ug/L	<5
1,1-DICHLOROETHENE	75-35-4	5 ug/L	<5
cis-1,2-DICHLOROETHENE	156-59-2	5 ug/L	<5
trans-1,2-DICHLOROETHENE	156-60-5	5 ug/L	<5
1,2-DICHLOROPROPANE	78-87-5	5 ug/L	<5
1,3-DICHLOROPROPANE	142-28-9	5 ug/L	<5
2,2-DICHLOROPROPANE	594-20-7	5 ug/L	<5

MDL = Minimum Detection Limit.



- 3

 IABORATORIES INC.
 110 Colin Drive • Holbrook, New York 11741

 "TOMORROWS ANALYTICAL SOLUTIONS FODAY"
 Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/20/05	Matrix: Liquid
Date analyzed: 7/20/05	ELAP #: 11693

Parameter	CAS No.	MDL	Results ug/L
BENZENE	71-43-2	0.7 ug/L	<0.7
BROMOBENZENE	108-86-1	5 ug/L	<5
BROMOCHLOROMETHANE	74-97-5	5 ug/L	<5
BROMODICHLOROMETHANE	75-27-4	5 ug/L	<5
BROMOFORM	75-25-2	5 ug/L	<5
BROMOMETHANE	74-83-9	5 ug/L	<5
n-BUTYLBENZENE	104-51-8	5 ug/L	<5
sec-BUTYLBENZENE	135-98-8	5 ug/L	<5
tert-BUTYLBENZENE	98-06-6	5 ug/L	<5
CARBON TETRACHLORIDE	56-23-5	5 ug/L	<5
CHLOROBENZENE	108-90-7	5 ug/L	<5
CHLORODIBROMOMETHANE	124-48-1	5 ug/L	<5
CHLOROETHANE	75-00-3	5 ug/L	<5
CHLOROFORM	67 <b>-</b> 66-3	5 ug/L	<5
CHLOROMETHANE	74-87-3	5 ug/L	<5
2-CHLOROTOLUENE	95-49-8	5 ug/L	<5
4-CHLOROTOLUENE	106-43-4	5 ug/L	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	5 ug/L	<5
1,2-DIBROMOETHANE	106-93-4	5 ug/L	<5
DIBROMOMETHANE	74-95-3	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
DICHLORODIFLUOROMETHANE	75-71-8	5 ug/L	<5
1,1-DICHLOROETHANE	75-34-3	5 ug/L	<5
1,2-DICHLOROETHANE	107-06-2	5 ug/L	<5
1,1-DICHLOROETHENE	75-35-4	5 ug/L	<5
cis-1,2-DICHLOROETHENE	156-59-2	5 ug/L	<5
trans-1,2-DICHLOROETHENE	156-60-5	5 ug/L	<5
1,2-DICHLOROPROPANE	78-87-5	5 ug/L	<5
1,3-DICHLOROPROPANE	142-28-9	5 ug/L	<5
2,2-DICHLOROPROPANE	594-20-7	5 ug/L	<5
DL - Minimum Dotection Limit			

#### **EPA METHOD 8260**

MDL Minimum Detection Limit.



 Interpretation
 Interpr

Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)	
Date received: 7/19/05	Laboratory ID: 1084020	
Date extracted: 7/20/05	Matrix: Liquid	
Date analyzed: 7/20/05	ELAP #: 11693	

#### MDL Results ug/L Parameter CAS No. 1,1-DICHLOROPROPENE <5 563-58-6 5 ug/L ETHYLBENZENE 100-41-4 5 ug/L <5 <5 HEXACHLOROBUTADIENE 5 ug/L 87-68-3 ISOPROPYLBENZENE <5 98-82-8 5 ug/L p-ISOPROPYLTOLUENE 99-87-6 5 ug/L <5 5 ug/L METHYLENE CHLORIDE 75-09-2 <5 NAPHTHALENE 91-20-3 5 ug/L <5 n-PROPYLBENZENE 5 ug/L <5 103-65-1 100-42-5 <5 STYRENE 5 ug/L 1,1,1,2-TETRACHLOROETHANE <5 630-20-6 5 ug/L 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE 79-34-5 5 ug/L <5 127-18-4 <5 5 ug/L TOLUENE 108-88-3 <5 5 ug/L 1,2,3-TRICHLOROBENZENE <5 87-61-6 5 ug/L 1,2,4-TRICHLOROBENZENE 120-82-1 5 ug/L <5 1,1,1-TRICHLOROETHANE 71-55-6 5 ug/L <5 79-00-5 1,1,2-TRICHLOROETHANE 5 ug/L <5 TRICHLOROETHENE 79-01-6 <5 5 ug/L TRICHLOROFLUOROMETHANE 75-69-4 <5 5 ug/L 1,2,3-TRICHLOROPROPANE 96-18-4 5 ug/L <5 1,3,5-TRIMETHYLBENZENE 108-67-8 5 ug/L <5 1,2,4-TRIMETHYLBENZENE 95-63-6 5 ug/L <5 VINYL CHLORIDE 75-01-4 5 ug/L <5 ACETONE 62-64-1 50 ug/L <50 CARBON DISULFIDE 75-15-0 5 ug/L <5 2-BUTANONE (MEK) 78-93-3 10 ug/L <10 VINYL ACETATE 108-05-4 <5 5 ug/L 2-HEXANONE 591-78-6 5 ug/L <5 p & m-XYLENE 1330-20-7 10 ug/L <10 o-XYLENE 95-47-6 5 ug/L <5 1634-05-4 <5 MTBE 5 ug/L

#### EPA METHOD 8260

MDL = Minimum Detection Limit.

Verald Michon

Michael Veraldi-Laboratory Director



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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

#### **EPA METHOD 8270**

Parameter	CAS No.	MDL	Results ug/L
Bis(2-CHLOROETHYL)ETHER	111-44-4	5 ug/L	<5
PHENOL	108-95-1	5 ug/L	<5
2-CHLOROPHENOL	95-57-8	5 ug/L	<5
1,3-DICHLOROBENZENE	541-73-1	5 ug/L	<5
1,4-DICHLOROBENZENE	106-46-7	5 ug/L	<5
1,2-DICHLOROBENZENE	95-50-1	5 ug/L	<5
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	5 ug/L	<5
2-METHYLPHENOL	95-48-7	5 ug/L	<5
HEXACHLOROETHANE	67-72-1	5 ug/L	<5
N-NITROSODI-n-PROPYL AMINE	621-64-7	5 ug/L	<5
4-METHYLPHENOL	106-44-5	5 ug/L	<5
NITROBENZENE	98-95-3	5 ug/L	<5
ISOPHORONE	78-59-1	5 ug/L	<5
2-NITROPHENOL	88-75-5	5 ug/L	<5
2,4-DIMETHYLPHENOL	105-67-9	5 ug/L	<5
Bis(2-CHLOROETHOXY)METHANE	111-91-1	5 ug/L	<5
2,4-DICHLOROPHENOL	102-83-2	5 ug/L	<5
1,2,4-TRICHLOROBENZENE	120-82-1	5 ug/L	<5
NAPHTHALENE	91-20-3	5 ug/L	<5
4-CHLOROANILINE	106-47-8	5 ug/L	<5
HEXACHLOROBUTADIENE	87-68-3	5 ug/L	<5
4-CHLORO-3-METHYLPHENOL	59-50-7	5 ug/L	<5
2-METHYLNAPHTHALENE	91-57 <b>-</b> 6	5 ug/L	<5
HEXACHLOROCYCLOPENTADIENE	77-47-4	5 ug/L	<5
2,4,6-TRICHLOROPHENOL	88-06-2	5 ug/L	<5
2,4,5-TRICHLOROPHENOL	95-95-4	5 ug/L	<5
2-CHLORONAPHTHALENE	91-58 <b>-</b> 7	5 ug/L	<5
2-NITROANILINE	88-74-4	5 ug/L	<5
ACENAPHTHYLENE	208-96-8	5 ug/L	<5
DIMETHYLPHTHALATE	131-11-3	5 ug/L	<5
2,6-DINITROTOLUENE	606-20-2	5 ug/L	<5
ACENAPHTHENE	83-32-9	5 ug/L	<5

MDL = Minimum Detection Limit.



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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave.
	(Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

#### **Results ug/L** Parameter CAS No. MDL **3-NITROANILINE** 99-09-2 5 ug/L <5 5 ug/L <5 2,4-DINITROPHENOL 51-28-5 DIBENZOFURAN 132-64-9 5 ug/L <5 2,4-DINTROTOLUENE 121-14-2 5 ug/L <5 4-NITROPHENOL <5 100-02-7 5 ug/L FLUORENE 86-73-7 <5 5 ug/L **4-CHLOROPHENYL PHENYL ETHER** 7005-72-3 5 ug/L <5 DIETHYLPHTHALATE <5 84-66-2 5 ug/L **4-NITROANILINE** 100-01-6 5 ug/L <5 4,6-DINITRO-2-METHYLPHENOL 534-52-1 5 ug/L <5 N-NITROSODIPHENYLAMINE 86-30-6 <5 5 ug/L 4-BROMOPHENYL-PHENYL ETHER 101-55-3 <5 5 ug/L HEXACHLOROBENZENE 118-74-1 <5 5 ug/L PENTACHLORPHENOL 87-86-5 5 ug/L <5 PHENANTHRENE 85-01-8 <5 5 ug/L ANTHRACENE 120-12-7 <5 5 ug/L Di-n-BUTYLPHTHALATE <5 84-74-2 5 ug/L **FLUORANTHENE** 206-44-0 5 ug/L <5 129-00-0 PYRENE 5 ug/L <5 BUTYLBENZYLPHTHALATE 85-68-7 <5 <u>5 ug/L</u> 3,3-DICHLOROBENZIDINE 91-94-1 5 ug/L <5 **BENZO-a-ANTHRACENE** 56-55-3 <5 5 ug/L CHRYSENE 218-01-9 5 ug/L <5 **Bis(2-ETHYLEXYL)PHTALATE** 117-81-7 5 ug/L 43 DI-n-OCTYLPHTHALATE 117-84-0 5 ug/L <5 BENZO-b-FLUOROANTHENE 205-99-2 <5 5 ug/L **BENZO-k- FLUOROANTHENE** 207-08-9 5 ug/L <5 **BENZO-a-PYRENE** 50-32-8 <5 5 ug/L INDENO(1,2,3-c,d)PYRENE 193-39-5 5 ug/L <5 DIBENZO-a,h-ANTHRACENE 53-70-3 5 ug/L <5 BENZO-g,h,i-PERYLENE 191-24-2 5 ug/L <5

#### EPA METHOD 8270

MDL = Minimum Detection Limit.

Michael Verald

Michael Veraldi-Laboratory Director



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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

#### EPA METHOD 608

PARAMETER	CAS No.	MDL	<b>RESULTS</b> ug/L
ALDRIN	309-00-2	0.01 ug/L	<0.01
α - BHC	319-84-6	0.01 ug/L	<0.01
β - BHC	319-85-7	0.01 ug/L	<0.01
δ - BHC	319-86-8	0.01 ug/L	<0.01
γ - BHC (Lindane)	58-89-9	0.02 ug/L	<0.02
CHLORDANE	12789-03-6	0.02 ug/L	<0.02
4,4'-DDD	72-54-8	0.01 ug/L	<0.01
4,4'-DDE	72-55-9	0.01 ug/L	<0.01
4,4'-DDT	50-29-3	0.05 ug/L	<0.05
DIELDRIN	60-57-1	0.01 ug/L	<0.01
ENDOSULFAN I	959-98-8	0.01 ug/L	<0.01
ENDOSULFAN II	33212-65-9	0.01 ug/L	<0.01
ENDOSULFAN SULFATE	1031-07-8	0.02 ug/L	<0.02
ENDRIN	72-20-8	0.01 ug/L	<0.01
ENDRIN ALDEHYDE	7421-93-4	0.01 ug/L	<0.01
ENDRIN KETONE	53494-70-5	0.02 ug/L	<0.02
HEPTACHLOR	76-44-8	0.01 ug/L	<0.01
HEPTACHLOR EPOXIDE	1024-57-3	0.01 ug/L	<0.01
4,4'-METHOXYCHLOR	72-43-5	0.01 ug/L	<0.01
TOXAPHENE	8001 <b>-</b> 35-2	20 ug/L	<20
AROCLOR-1016	12674-11-2	20 ug/L	<20
AROCLOR-1221	1104-28 <b>-</b> 2	20 ug/L	<20
AROCLOR-1232	11141-16-5	20 ug/L	<20
AROCLOR-1242	53469-21-9	20 ug/L	<20
AROCLOR-1248	12672-29-6	20 ug/L	<20
AROCLOR-1254	1109769-1	20 ug/L	<20
AROCLOR-1260	11096-82-5	20 ua/L	<20

MDL = Minimum Detection Limit.

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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/21/05	Matrix: Liquid
Date analyzed: 7/21/05	ELAP #: 11693

#### **EPA Method 615 Herbicides**

PARAMETER	CAS #	MDL	RESULTS ug/L
2,4-D	94-75-7	5 ug/L	<5
SILVEX(2,4,5-TP)	93-72-1	1 ug/L	<1

MDL = Minimum Detection Limit.

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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/28/05	Matrix: Liquid
Date analyzed: 8/5/05	ELAP #: 11685

#### **ANALYTICAL REPORT**

	Lab ID #	Client ID	Parameter	Result
	1084020	Monitoring Well	Dixon	<5.9 ug/L
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Client: Chemical Pollution Control	Client ID: Engineers Lane & Central Ave. (Monitoring Well)
Date received: 7/19/05	Laboratory ID: 1084020
Date extracted: 7/22/05	Matrix: Liquid
Date analyzed: 7/22/05	ELAP #: 11693

### **Target Compound List-Metals**

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
ALUMINUM, AI	0.05 mg/L	26.6
ARSENIC, As	0.05 mg/L	<0.05
BARIUM, Ba	1.00 mg/L	<1.00
BERYLLIUM, Be	0.05 mg/L	<0.05
CALCIUM, Ca	0.05 mg/L	19.6
CADMIUM, Cd	0.05 mg/L	<0.05
COBALT, Co	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	1.20
COPPER, Cu	0.05 mg/L	<0.05
IRON, Fe	0.05 mg/L	41.9
MERCURY, Hg	0.002 mg/L	<0.002
POTASSIUM, K	0.05 mg/L	6.52
MAGNESIUM, Mg	0.05 mg/L	5.26
MANGANESE, Mn	0.05 mg/L	0.97
SODIUM, Na	0.05 mg/L	41.6
NICKEL, Ni	0.05 mg/L	0.13
LEAD, Pb	0.005 mg/L	0.025
ANTIMONY, Sb	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
THALIUM, TI	0.05 mg/L	<0.05
VANADIUM, V	0.05 mg/L	0.05
ZINC, Zn	0.05 mg/L	0.10

MDL = Minimum Detection Limit.

Michael Verald

Michael Veraldi-Laboratory Director



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CIERT MALEDIDERS     CONTROL OF LANCE     CONTROL OF LANCE <th>ANALYTICAL LABORATORES TOMORROWS AMULTICUL FOUTIONS I</th> <th>2 N</th> <th>110 CC</th> <th>olin Drive</th> <th>· Holbr</th> <th>pok, Ne</th> <th>W York 11741 • Phor</th> <th>ne (631) 472-3400</th> <th>- Fax (63</th> <th>1) 479-R</th> <th>505 • Fms</th> <th>1 I AL @1</th> <th>ialir.com</th> <th></th>	ANALYTICAL LABORATORES TOMORROWS AMULTICUL FOUTIONS I	2 N	110 CC	olin Drive	· Holbr	pok, Ne	W York 11741 • Phor	ne (631) 472-3400	- Fax (63	1) 479-R	505 • Fms	1 I AL @1	ialir.com	
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13     14     FLOA "U       MATRX: S=SOIL: SL=UDUDGE: L=LOUID: DW=DRINKING WATER: A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL. TVPE: G=ORL C=ORL: C=ORL: C=COMPOSITE; SS=SPLIT SPOON     FLOA "U       TYPE: G=ORL: C=HQL, HSOL, NOOH, MASS303     FLOA "U       TYPE: G=ORL: CE, HQL, HSOL, NAOH, MASS303     BY       TIME     FRECEWED BY (SIGNATURE)       FILINOUISHED BY (SIGNATURE)     DATE       PRINTED NAME     RECEIVED BY (SIGNATURE)       DATE     PRINTED NAME       RELINOUISHED BY (SIGNATURE)     DATE       PRINTED NAME     RECEIVED BY (SIGNATURE)	12.								-					
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								N WWW OXY			211	3		

### 7.10 OU2A Babylon Permit

TOWN OF BA	ABYLON	EXC	AVATION IN STREETS	APPLICATION FO	R PERMIT		
PERMIT # 9616 JOB # 2007-521							
I hereby make application to e	xcavate at	510	CENTARL A	ve zo' "	ENCINEER		
Hamlet of EF4~M.		_ to a d	depth of 4 '	for the purpose of			
EL	ECTAL	LIN	E				
The application, or his agent, in (BHDR-71), and is also familia repair. If installation requires excavati- companies.	n signing the appli ir with the portion on greater than or	ication c ns of the ne foot ir	onfirms that he has read, under Town Ordinance as it pertain depth, the installer must obta	erstands and will adhere to is to the proposed constr ain main markings and cle	o the repair specification ruction and the required arances from local utility		
		PERI	MIT FEES INFORMATION				
CHECK TYPE OF OPERATION	BASE FEE		INDICATE	ADDITIONAL TIMES UNIT RATE	SUBTOTAL		
Driveway Apron	\$75		Ea.	\$25.00 each			
Utility Excavation	\$75		Ea.	\$25.00 each			
Excavation 18" or less	\$75*		L.F.	\$1.00 per foot			
Excavation bet. 18" & 5'	\$100*		<b>70</b> L.F.	\$1.25 per foot	100.00		
Excavation exceeding 5'	\$150*		L.F.	\$1.50 per foot			
Test/Monitoring Wells	\$75		Ea.				
Basin	\$150		Ea.				
Utility Inspection Fee	\$200		Ea.		*****		
*for the first 100 linear feet, or less					\$ 100.00		
	CER	TIFIED	CHECK / CASH INFORM	ATION			
OPERATION	INDICATI	E	UNIT RATE	REPLACE UNIT	SUBTOTAL		
Service Connection		Ea.	\$500.00 Ea.				
Excavation 18" or less		L.F.	\$18.50 L.F.				
Excavation bet. 18" & 5'	07	L.F.	\$20.00 L.F.		1400.00		
Excavation exceeding 5'		L.F.	\$25.00 L.F.				
Pavement Restoration		S.F.	\$9.00 S.F.	\$13.00 S.F.			
Curbing		L.F.	\$18.50 L.F.	\$22.50 L.F.			
Driveway Aprons		S.F.	Res: \$11.00 Com: \$15.00 S.F.	R: 14.00/C: \$19.00 S.F.			
Sidewalks		S.F.	Res: \$7.00 Cam: \$10.00 S.F.	R: \$11.00/C: 15.00 S.F.			
Concrete Curb Gutter		L.F.	3": \$19.00/6": \$22.00 L.F.	3": \$23.00/6": \$26.00 L.F.			
Install Basin		Ea.	\$3,500.00 Ea.				
Install 15" R.C.P.		L.F.	\$57.00 L.F.				
Install 18" R.C.P.		L.F.	\$68.00 L.F.				
Test/Monitoring Wells		Ea.	\$100.00 Ea.				
			TOTAL CHECK/CASH	AMOUNT REQUIRED	\$ 1400.00		
Above data not applicable fr	ar utility repair o	icavatio	ns (See Ordinance)		-		
applicable it	ified check or ca	sh shall	have a duration from the de	ate of completion of the	work under this permit		
Provisions for posting a certi	of all excavations	18" or l	ess in depth, three (3) years depth.	for all excavations betwe	een 18" and 5' in depth		
Provisions for posting a cert of two (2) years in the case of and four (4) years for all exc	avations exceed	ing o in					
Provisions for posting a cert of two (2) years in the case of and four (4) years for all exc Insurance Company EVA	avations exceed OWNER'S PRO BEST IA	otecti ろとか	ON POLICY - INSURANCE	EINFORMATION	erty Damage Liability		
Provisions for posting a cert of two (2) years in the case of and four (4) years for all exc Insurance Company $\frac{EVR}{POD}$	avations exceed OWNER'S PRO POSTIA	DTECTI JBCM	on policy - insuranci Nity <u>Insurance</u> 7]	EINFORMATION	erty Damage Liability ility		
Provisions for posting a cert of two (2) years in the case of and four (4) years for all exc Insurance Company $\underline{EVt}$ Policy Number $\underline{HOOO}$ Effective Date $\underline{-HOOO}$	avations exceed OWNER'S PR PESTIA ODIICO -D'7	DTECTI DECTI DECTI Expirati	ON POLICY - INSURANCE MITY FISTERATE G 21 on Date 4-11-08	EINFORMATION           2         \$ 50,000         Prop          \$         \$ 500,000         Liab          \$         \$ 1,000,000         Pers	erty Damage Liability ility onal Injury		

permit, at its discretion, without a hea	ring or the necessity of sh	owing cause either bef	ore or during the op	erations authorized.
	NOTIFIC	ATIONS		
It is absolutely necessary that the Perr within <u>60</u> days after date of permit iss issuance or an extension fee of \$50 w Date Signed $(241, 241, 7, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,$	mittee notify the Highway ( suance. All final restoration ill be required. Signed 9 CAddress	Department one day print myork must be completed and be be a set of the best o	for to commencing we determine the set of th	vork. Work must start after date of permit
	Town Pate	hoquie	, N	.Y. Zip 1/222
An application fee of \$30.00 plus a fee	e of \$ 100.00	_ for a total fee of \$ _	130.00	as prescribed by the
Superintendent of Highways will be re	quired.	J.E. Tin	Town Clered	hert.
COMMISSIONER - WHITE	HIGHWAY DEPT. CO	OPY - YELLOW	TOWN CLER	K'S COPY - PINK
	- je mon			

Receipt 1

#### 7.11 OU2A Discharge Permit

#### COUNTY OF SUFFOLK



STEVE LEVE SUFFOLK COUNTY EXECUTIVE

#### DEPARTMENT OF PUBLIC WORKS

THOMAS LAGUARDIA, P.E. CHIEF DEPUTY COMMISSIONER GILBERT ANDERSON, P.E. COMMISSIONER LOUIS CALDERONE DEPUTY COMMISSIONER

CERTIFIED MAIL

August 11, 2009

Astro Electroplating, Inc. 171 4<sup>th</sup> Avenue Bay Shore, NY 11706

Attention: Neil Weinstein

Re:

Discharge Certification for: Groundwater Remediation Project 170 Central Avenue Farmingdale, NY 11735

DC Permit No.: 507-711-0001-OB

Dear Mr. Weinstein:

335 YAPHANK AVENUE

Attached is an executed copy of the above-referenced "Discharge Certification" for your facility.

Please review this document and attached "General Conditions" carefully and note the following:

1) **Discharge Limitations:** Effluent characteristics/Discharge Limitations and/or sampling criteria are detailed on page 2.

2) General Conditions: This section details certain responsibilities relative to reporting accidental spills, monitoring requirements, prohibited discharges and your right to appeal. Paragraph 7 references the regulatory publications which state explicitly your responsibility as an industrial sewer user. These publications are available for review at most Public Libraries and can be purchased from the U.S. Government printing office.

3) **Reporting Requirements:** The Industrial Waste Unit will send you reporting forms semi-annually. Please use the forms to report sludge and/or chemical waste removal and flow information as required by the Discharge Certification.

SUFFOLK COUNTY IS AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

YAPHANK, N.Y. 11980

(631) 852-4160 FAX (631) 852-5674 Page 2 Groundwater Remediation Project

4) Expiration Date: No later than 90 days prior to expiration of this Discharge Certification you must apply for renewal.

If you have any questions regarding your "Discharge Certification" or Industrial/Chemical Wastes Monitoring Report, do not hesitate to call me at 852-4314.

Very truly yours,

Diane L. Booth Pretreatment Program Coordinator Industrial Waste Unit Wastewater Management & Pretreatment Section

DLB:VAA:am

Attachments: Discharge Certification General Conditions Concentration Limits cc: File

Property Owner

Suffolk County Department of Public Works



Wastewater Management and Pretreatment Section Industrial Waste Unit

## \* \* \* Discharge Certification \* \* \*

Туре <u>"В"</u>

SCSD #3 - Southwest RPTM#:0100-00700-0100-021000 DC No.: 507-711-0001-0B

Issued to:

#### Groundwater Remediation Project at the former Astro Electroplating Facility Unit #11 Nowak Industrial Complex 170 Central Avenue Farmingdale, NY 11735

Neil Weinstein – President, Astro Electroplating/Bay Shore Facility – (631) 968-0656 Contact: Project Manager, Ariel Czemerinski, P.E. – AMC Engineering PLLC – (631) 414-7396

#### Effective Date: August 12, 2009 Expiration Date: February 11, 2010

Property Owner: Lawrence Nowak - 55 Central Avenue - Farmingdale, NY 11735

The above-described facility is authorized to discharge, in accordance with all applicable regulations and discharge limitations contained within this "Discharge Certification" and the attached "General Conditions", Sanitary sewage and effluent from groundwater remediation project as specified within AMC Engineering letter dated 10/16/08 and submitted to SCDPW-IWU.

This Special Permit "Discharge Certification" is issued in accordance with Suffolk County Code Chapter 424 – "Sewers". As such the permitted is required to adhere to all provisions of this Chapter although not reproduced entirely in this document. Violators shall be liable for a civil penalty in an amount of not less than \$300 nor more than \$1,000 for each day of each violation. This permit supersedes any and all Discharge Certification permits previously issued to the premises. Issuance of this permit does not acknowledge or imply that the permittee is in compliance with the requirements of this permit.

Date:

Ben Wright, P.É., Chief Engineer Division of Sanitation

#### Groundwater Remediation Project / former Astro Electroplating Facility (507-711-0001-0B)

During the period beginning <u>August 12, 2009</u> and lasting until <u>February 11, 2010</u> discharges from connections <u>001A & 001E</u> shall be limited, and/or controlled by the permitee and monitored by S.C.D.P.W. -Industrial Waste Unit as specified below:

	Discharge Limitations						
Connection Number	Effluent Characteristic	<u>Monthly</u> Avg. mg/L	<u>Daily Max.</u> mg/L	Sample Frequency	<u>Sample</u> Type		
001A	Point of entry to SWSD for 170 Central Avenue	Sanitary a	& Industrial Con	nbined			
001E	Sewer Access Port - dis	scharge from g	roundwater rem	ediation (NO s	anitary waste)		
Holding Tank:	Final effluent from pretro (Location of SCDPW - IWU	eatment of con automatic samp	taminated grour ler)	ndwater (see No	te 1) 8 Hour		
				Tri-Annual	Composite		
1.0.9.31	Silver	0.2	0.4	. •			
	Copper	0.8	1.6		<u> </u>		
	Nickel	4.0	8.0	·			
	Chromium (Total)	4.0	8.0	· ·			
· · ·	Zinc	2.5	5.0				
de la	Lead	0.2	0.4		-		
	Cadmium	0.4	0.8		Croh		
	Chromium (Hexavalent)	0.2	0.4		Grab		
	pH	5.5 Min.	12.0 Max.				
	Flow (See Note #4)		3,360 gallons				

#### NOTES:

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- 1) Ground-water from the remediation extraction well located at the corner of Engineer's Lane and Central Avenue in Farmingdale, NY, shall be the only allowable source of remediate authorized by this permit for discharge into the Suffolk County Sewer System.
- 2) The Project Manager must be on site at all times during the hours of operation to oversee the discharge. An operating day is defined as a maximum 8-hour day within the time frame of 7am and 5pm, Monday through Friday.
- 3) A non-resettable flow meter must be kept in working order at all times to ensure accurate flow readings. Meter failure must be reported to the IWU immediately (631) 852-4160.
- 4) The maximum daily discharge from this remediation project shall not exceed 3,360 gallons per day and shall not exceed a rate of seven (7) gallons per minute.

-2A-

Groundwater Remediation Project / former Astro Electroplating Facility (507-711-0001-0B)

#### Effective Date: August 12, 2009 Expiration Date: February 11, 2010

- 5) The Project manager shall perform in-house monitoring of pollutant metal concentrations contained in groundwater remediate effluent samples collected at a minimum of twice daily, as follows: one sample collected in the morning and the second collected in the afternoon, to ensure that the effluent which is discharged complies with Suffolk County Local Sewer Discharge Concentration Limits.
- 6) Project Manager must maintain a daily log sheet recording daily flow meter readings and results of in-house monitoring.
- 7) Any disruption to the power source of the Automatic Sampler must be reported to the Industrial Waste Unit immediately at (631) 852-4160.

- 2B -

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