

Table 1. Chemical Criteria/Limits for Soil/Sand Imported from Off-Site Sources
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter	NYSDEC RSCOs ¹	Part 375 Unrestricted Use ¹
VOCSs (ug/kg)		
1,1,1-Trichloroethane	800	680
1,1,2,2-Tetrachloroethane	600	--
1,1,2-Trichlorotrifluoroethane	6,000	--
1,2,3-Trichloropropane	400	--
1,1-Dichloroethane	200	270
1,1-Dichloroethene	400	330
1,2-Dichloroethane	100	20
1,3-Dichloropropane	300	--
2-Butanone (MEK)	300	120
4-Methyl-2-pentanone (MIBK)	1,000	--
Acetone	200	50
Benzene	60	60
Carbon disulfide	2,700	--
Carbon tetrachloride	600	760
Chlorobenzene	1,700	1,100
Chloroethane	1,900	--
Chloroform	300	370
Dibromochloromethane	--	--
Ethylbenzene	5,500	1,000
Methylene chloride	100	50
Tetrachloroethene	1,400	1,300
Toluene	1,500	700
trans-1,2-Dichloroethene	300	190
Trichloroethene	700	470
Vinyl chloride	200	20
Xylenes (total)	1,200	260
SVOCSs (ug/kg)		
1,2,4-Trichlorobenzene	3,400	--
1,2-Dichlorobenzene	7,900	8,400
1,4-Dichlorobenzene	8,500	1,800
2,4,5-Trichlorophenol	100	--
2,4-Dichlorophenol	400	--
2,4-Dinitrophenol	200	--
2,6-Dinitrotoluene	1,000	--
2-Chlorophenol	800	--
2-Methylnaphthalene	36,400	--
2-Methylphenol	100	330
2-Nitroaniline	430	--
2-Nitrophenol	330	--
3,3'-Dichlorobenzidine	--	--
3-Nitroaniline	500	--
4-Chloro-3-methylphenol	240	--
4-Chloroaniline	220	--
4-Methylphenol	900	--
4-Nitrophenol	100	--
Acenaphthene	50,000	20,000
Acenaphthylene	50,000	100,000
Anthracene	50,000	100,000
Aniline	100	--

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SVOCSs (ug/kg)		
Benzo[a]anthracene	224	1,000
Benzo[a]pyrene	61	1,000
Benzo[b]fluoranthene	220	1,000
Benzo[g,h,i]perylene	50,000	100,000
Benzo[k]fluoranthene	220	800
Bis(2-ethylhexyl) phthalate	50,000	--
Butylbenzyl phthalate	50,000	--
Chrysene	400	1,000
Dibenzo[a,h]anthracene	14	330
Dibenzofuran	6,200	7,000
Diethyl phthalate	7,100	--
Dimethyl phthalate	2,000	--
Di-n-butyl phthalate	8,100	--
Di-n-octyl phthalate	50,000	--
Fluoranthene	50,000	100,000
Fluorene	50,000	30,000
Hexachlorobenzene	410	330
Indeno[1,2,3-cd]pyrene	3,200	500
Isophorone	4,400	--
Naphthalene	13,000	12,000
Nitrobenzene	200	--
Pentachlorophenol	1,000	800
Phenanthrene	50,000	100,000
Phenol	30	330
Pyrene	50,000	100,000
Metals (mg/kg)		
Aluminum	33,000	--
Antimony	4.3 (SB)	--
Arsenic	9.7 (SB)	13
Barium	300	350
Beryllium	0.72 (SB)	7.2
Cadmium	1	2.5
Calcium	35,000	--
Chromium	15 (SB)	--
Cobalt	30	--
Copper	365 (SB)	50
Iron	17,000 (SB)	--
Lead	500	63
Magnesium	5,000	--
Manganese	5,000	1600
Mercury	0.3 (SB)	0.18
Nickel	34.9 (SB)	30
Potassium	43,000	--
Selenium	2	3.9
Silver	--	2
Sodium	8,000	--
Thallium	--	--
Vanadium	150	--
Zinc	333 (SB)	109

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Parameter	NYSDEC RSCOs ¹	Part 375 Unrestricted Use ¹
PCBs (ug/kg)		
Aroclor-1016	--	--
Aroclor-1221	--	--
Aroclor-1232	--	--
Aroclor-1242	--	--
Aroclor-1248	--	--
Aroclor-1254	--	--
Aroclor-1260	--	--
Aroclor-1262	--	--
Total PCBs:	10,000	1,000
Pesticides (ug/kg)		
4,4'-DDD	2,900	3.3
4,4'-DDE	2,100	3.3
4,4'-DDT	2,100	3.3
Aldrin	41	5
alpha-BHC	110	20
Chlordane	540	--
beta-BHC	200	36
delta-BHC	300	40
Dieldrin	44	94
Endosulfan I	900	2,400
Endosulfan II	900	2,400
Endosulfan sulfate	1,000	2,400
Endrin ketone	--	--
Endrin	100	14
gamma-BHC (Lindane)	60	100
gamma-Chlordane	540	--
Heptachlor epoxide	20	--
Heptachlor	100	42
Methoxychlor	--	--
Herbicides (ug/kg)		
2,4-D	500	--
2,4,5-TP (Silvex)	700	3,800
2,4,5-T	1,900	--

Notes:

¹- The chemical criteria/limits for soil/sand imported from off-Site sources were compared to the RSCOs cited in NYSDEC TAGM 4046 and the Unrestricted Use Soil Cleanup Objectives cited in Part 375 6.8(A) of Title 6 of the NYCRR.

SB - Site Background

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

NYCRR - New York Codes, Rules and Regulations

-- No Standard available

µg/kg - Micrograms per kilogram

mg/kg - Milligrams per kilogram

Table 2. As-Built Summary of Seeding and Planting Composition
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Planting Zone	Species	Common Name	Wetland Indicator Status	Minimum Planting/ Seeding Density	Estimated Planting/ Seeding Quantity	Planting/ Seeding Type
PLANTING FOR THE NORTH BANK OF MILL CREEK BETWEEN EAST OF ARTHUR KILL ROAD						
Low Marsh	<i>Spartina alterniflora</i>	smooth cordgrass	OBL	1 ft O.C.	39,017	2-inch plug, bare root
(39,017 sf)	<i>Spartina alterniflora</i>	smooth cordgrass	OBL	2 lbs/1,000 sf	78	seed
High Marsh	<i>Spartina patens</i>	salt marsh hay	FACW	1 ft O.C. total plant density	17,781	2-inch plug, bare root
(22,755 sf)	<i>Juncus gerardii</i>	black grass	FACW		1,650	2-inch plug, bare root
	<i>Distichlis spicata</i>	spike grass	FACW		3,324	2-inch plug, bare root
	<i>Iva frutescens</i>	high tide bush	FAC	8 ft O.C.	30	5 gallon container
Brackish Marsh	<i>Scirpus robustus</i>	salt marsh bulrush	OBL	1 ft O.C. total plant density	2,700	2-inch plug, bare root
(17,323 sf)	<i>Scirpus Tabernaemontanii</i>	soft stem bulrush	OBL		9,200	2-inch plug, bare root
	<i>Scirpus pungens</i>	common three square	FACW		8,045	2-inch plug, bare root
	<i>Iva frutescens</i> ¹	high tide bush	FAC	8 ft O.C.	160	1 gallon/ 5 gallon containers
	<i>Scirpus pungens</i>	common three square	FACW	2 lbs/1,000 sf	35 lbs	seed
PLANTING FOR THE SOUTH BANK OF MILL CREEK BETWEEN PAGE AVENUE AND ARTHUR KILL ROAD						
Low Marsh	<i>Spartina alterniflora</i>	smooth cordgrass	OBL	3 ft O.C. total plant density	1,874	2-inch plug, bare root
(16,865 sf)	<i>Spartina alterniflora</i>	smooth cordgrass	OBL	2 lbs/1,000 sf	34 lbs.	seed
High Marsh	<i>Spartina patens</i>	salt marsh hay	FACW	3 ft O.C. total plant density	469	2-inch plug, bare root
(4,220 sf)	<i>Spartina alterniflora</i>	smooth cordgrass	OBL	2 lbs/1,000 sf	8 lbs.	seed
PLANTING FOR THE SOUTH BANK OF MILL CREEK EAST OF PAGE AVENUE						
Brackish Marsh	<i>Scirpus robustus</i>	salt marsh bulrush	OBL	1 ft O.C. total plant density	1,386	2-inch plug, bare root
(3,300 sf)	<i>Scirpus validus</i>	soft stem bulrush	OBL		528	2-inch plug, bare root
	<i>Scirpus Pungens</i>	common three square	FACW		1,386	2-inch plug, bare root
PLANTING FOR WETLAND ADJACENT AREAS AND UPLAND AREAS						
Adjacent/Upland Areas	<i>Panicum virgatum</i>	switchgrass	FAC	20 lbs/ac total seed density	54 lbs.	seed
(10.8 AC)	<i>Secale cereale</i>	annual rye	NL		54 lbs.	seed
	Various sp.(see Table 2)	northeast wildflower mix			108 lbs.	seed

Notes:

- Shrubs were planted in the wetlands north of Mill Creek only along the adjacent area boundary between Page Avenue and Arthur Kill Road.

Legend:

NL - not listed
OBL - obligate
FACW - facultative wetland
FAC - facultative
ft - feet
ac - acre
sf - square feet
O.C. - on center
lbs - pounds

Table 3. As-Built Seed Composition**Final Engineering Report for OU-1, Site No. V-00159-2****Nassau Metals Corporation, Staten Island, New York**

NORTHEAST WILDFLOWER MIX		
Percent in Mix	Species	Common Name
12	<i>Centaurea cyanus</i>	bachelor's buttons
11	<i>Lupinus perennis</i>	perennial lupine
9	<i>Gypsophilia elagans</i>	annual baby's breath
7	<i>Coreopsis lanceolata</i>	lance-leaf coreopsis
7	<i>Delphinium ajacis</i>	rocket larkspur
6	<i>Cheiranthus allionii</i>	siberian wallflower
6	<i>Dianthus barbatus</i>	sweet william pinks
6	<i>Hesperis matonalis</i>	dame's rocket
2.88	<i>Linum gransiflorum rubrum</i>	scarlet flax
2.76	<i>Oenothera biennis</i>	evening primrose
2.76	<i>Linum gransiflorum</i>	blue flax
2.76	<i>Echinacea purpurea</i>	purple cornflower
2.76	<i>Chrysanthemum leucanthrmum</i>	ox-eyed daisy
2.76	<i>Gailaria aristata</i>	blanket flower
2.76	<i>Papaver spp.</i>	shirley poppy
2.76	<i>Rudbeckia hirta</i>	black-eyed susan
2.76	<i>Aster novae-angeliae</i>	new england aster
2.76	<i>Achillea filipendulina</i>	gold yarrow
2.76	<i>Liatris spicata</i>	gayfeather
2.76	<i>Silene armeria</i>	catchfly
2.76	<i>Linaria maroccana</i>	spurred snapdragon

Table 4. Volatile Organic Compounds Detected in Off-Site Fill Materials
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Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand
			Type of Sample:	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2	Post-Qualification No. 3	Post-Qualification No. 4
			Sample Designation:	FM-02	FM-05	FM-09	FM-13	FM-23
			Sample Date:	10/31/06	01/11/07	03/01/07	03/27/07	05/23/07
1,1,1-Trichloroethane	800	680		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,1,2,2-Tetrachloroethane	600	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,1,2-Trichlorotrifluoroethane	6,000	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,2,3-Trichloropropane	400	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,1-Dichloroethane	200	270		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,1-Dichloroethene	400	330		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,2-Dichloroethane	100	20		5.3 U	27 U	6.3 U	5.5 U	5.2 U
1,3-Dichloropropane	300	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
2-Butanone (MEK)	300	120		5.3 U	130 U	32 U	27 U	26 U
4-Methyl-2-pentanone (MIBK)	1,000	--		26 U	130 U	32 U	27 U	26 U
Acetone	200	50		5.3 U	130 U	21 JB	18 JB	26 U
Benzene	60	60		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Carbon disulfide	2,700	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Carbon tetrachloride	600	760		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Chlorobenzene	1,700	1,100		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Chloroethane	1,900	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Chloroform	300	370		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Dibromochloromethane	--	--		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Ethylbenzene	5,500	1,000		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Methylene chloride	100	50		5.3 U	27 U	6.3 U	5.5 U	2.0 J
Tetrachloroethene	1,400	1,300		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Toluene	1,500	700		5.3 U	27 U	6.3 U	5.5 U	5.2 U
trans-1,2-Dichloroethene	300	190		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Trichloroethene	700	470		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Vinyl chloride	200	20		5.3 U	27 U	6.3 U	5.5 U	5.2 U
Xylenes (total)	1,200	260		10.6 U	27 U	6.3 U	5.5 U	10 U

Notes:

U - Analyte was not detected at or above the reporting limit

B - Compound was found in the blank and sample

J - Estimated value

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Bold - Concentration exceeds NYSDEC RSCO

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

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Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Wyckoff Mills Site Topsoil
			Type of Sample:	Post-Qualification No. 5	Post-Qualification No. 6	Post-Qualification No. 7	Post-Qualification No. 8	Prequalification
			Sample Designation:	FM-37	FM-48	FM-56	FM-58	WYK-01
			Sample Date:	06/28/07	08/02/07	09/05/07	09/24/09	03/01/07
1,1,1-Trichloroethane	800	680		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
1,1,2,2-Tetrachloroethane	600	--		5.4 U	5.6 U	5.3 U	5.2 U	1.1 U
1,1,2-Trichlorotrifluoroethane	6,000	--		5.4 U	5.6 U	5.3 U	5.2 U	NA
1,2,3-Trichloropropane	400	--		5.4 U	5.6 U	5.3 U	5.2 U	NA
1,1-Dichloroethane	200	270		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
1,1-Dichloroethene	400	330		5.4 U	5.6 U	5.3 U	5.2 U	2.2 U
1,2-Dichloroethane	100	20		5.4 U	5.6 U	5.3 U	5.2 U	2.2 U
1,3-Dichloropropane	300	--		5.4 U	5.6 U	5.3 U	5.2 U	NA
2-Butanone (MEK)	300	120		27 U	28 U	26 U	26 U	NA
4-Methyl-2-pentanone (MIBK)	1,000	--		27 U	28 U	26 U	26 U	NA
Acetone	200	50		27 U	28 U	26 U	26 U	NA
Benzene	60	60		5.4 U	5.6 U	5.3 U	5.2 U	1.1 U
Carbon disulfide	2,700	--		5.4 U	5.6 U	5.3 U	5.2 U	NA
Carbon tetrachloride	600	760		5.4 U	5.6 U	5.3 U	5.2 U	2.2 U
Chlorobenzene	1,700	1,100		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Chloroethane	1,900	--		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Chloroform	300	370		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Dibromochloromethane	--	--		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Ethylbenzene	5,500	1,000		5.4 U	5.6 U	5.3 U	5.2 U	4.4 U
Methylene chloride	100	50		5.4 U	7.2 B	5.3 U	5.2 U	3.3 U
Tetrachloroethene	1,400	1,300		5.4 U	5.6 U	5.3 U	5.2 U	1.1 U
Toluene	1,500	700		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
trans-1,2-Dichloroethene	300	190		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Trichloroethene	700	470		5.4 U	5.6 U	5.3 U	5.2 U	1.1 U
Vinyl chloride	200	20		5.4 U	5.6 U	5.3 U	5.2 U	5.5 U
Xylenes (total)	1,200	260		16 U	17 U	16 U	15 U	5.5 U

Notes:

U - Analyte was not detected at or above the reporting limit

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			Type of Sample:	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
			Sample Designation:	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2	Post-Qualification No. 3	Post-Qualification No. 4
			Sample Date:	WYK-02	FM-30	FM-31	FM-32	FM-33
				03/01/07	06/26/07	06/26/07	06/26/07	06/26/07
1,1,1-Trichloroethane	800	680		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
1,1,2,2-Tetrachloroethane	600	--		1.1 U	5.2 U	5.3 U	5.5 U	5.3 U
1,1,2-Trichlorotrifluoroethane	6,000	--		NA	5.2 U	5.3 U	5.5 U	5.3 U
1,2,3-Trichloropropane	400	--		NA	5.2 U	5.3 U	5.5 U	5.3 U
1,1-Dichloroethane	200	270		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
1,1-Dichloroethene	400	330		2.2 U	5.2 U	5.3 U	5.5 U	5.3 U
1,2-Dichloroethane	100	20		2.2 U	5.2 U	5.3 U	5.5 U	5.3 U
1,3-Dichloropropane	300	--		NA	5.2 U	5.3 U	5.5 U	5.3 U
2-Butanone (MEK)	300	120		NA	26 U	7.1 J	27 U	27 U
4-Methyl-2-pentanone (MIBK)	1,000	--		NA	26 U	27 U	27 U	27 U
Acetone	200	50		NA	26 U	19 J	27 U	27 U
Benzene	60	60		1.1 U	5.2 U	5.3 U	5.5 U	5.3 U
Carbon disulfide	2,700	--		NA	5.2 U	5.3 U	5.5 U	5.3 U
Carbon tetrachloride	600	760		2.2 U	5.2 U	5.3 U	5.5 U	5.3 U
Chlorobenzene	1,700	1,100		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Chloroethane	1,900	--		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Chloroform	300	370		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Dibromochloromethane	--	--		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Ethylbenzene	5,500	1,000		4.5 U	5.2 U	5.3 U	5.5 U	5.3 U
Methylene chloride	100	50		3.4 U	5.3	6.1 B	5.4 J	6.3
Tetrachloroethene	1,400	1,300		1.1 U	5.2 U	5.3 U	5.5 U	5.3 U
Toluene	1,500	700		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
trans-1,2-Dichloroethene	300	190		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Trichloroethene	700	470		1.1 U	5.2 U	5.3 U	5.5 U	5.3 U
Vinyl chloride	200	20		5.6 U	5.2 U	5.3 U	5.5 U	5.3 U
Xylenes (total)	1,200	260		5.6 U	15 U	16 U	16 U	16 U

Notes:

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			Type of Sample:	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
			Sample Designation:	Post-Qualification No. 5	Post-Qualification No. 6	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2
			Sample Date:	FM-34	FM-35	FM-19	FM-25	FM-47
				06/26/07	06/26/07	05/08/07	06/07/07	07/20/07
1,1,1-Trichloroethane	800	680		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,1,2,2-Tetrachloroethane	600	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,1,2-Trichlorotrifluoroethane	6,000	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,2,3-Trichloropropane	400	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,1-Dichloroethane	200	270		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,1-Dichloroethene	400	330		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,2-Dichloroethane	100	20		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
1,3-Dichloropropane	300	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
2-Butanone (MEK)	300	120		28 U	27 U	14 J	34 U	73
4-Methyl-2-pentanone (MIBK)	1,000	--		28 U	27 U	34 U	34 U	45 U
Acetone	200	50		28 U	27 U	130	34 U	400
Benzene	60	60		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Carbon disulfide	2,700	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Carbon tetrachloride	600	760		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Chlorobenzene	1,700	1,100		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Chloroethane	1,900	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Chloroform	300	370		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Dibromochloromethane	--	--		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Ethylbenzene	5,500	1,000		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Methylene chloride	100	50		7	7.1	6.8 U	6.8 U	15
Tetrachloroethene	1,400	1,300		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Toluene	1,500	700		5.7 U	5.5 U	6.8 U	6.8 U	9.3
trans-1,2-Dichloroethene	300	190		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Trichloroethene	700	470		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Vinyl chloride	200	20		5.7 U	5.5 U	6.8 U	6.8 U	8.9 U
Xylenes (total)	1,200	260		17 U	16 U	14 U	14 U	27 U

Notes:

U - Analyte was not detected at or above the reporting limit

B - Compound was found in the blank and sample

J - Estimated value

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Bold - Concentration exceeds NYSDEC RSCO

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

Table 4. Volatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Nature's Choice Site Topsoil	Nature's Choice Site Topsoil
			Type of Sample:	Post-Qualification No. 3	Post-Qualification No. 4
			Sample Designation:	NMHO-01	NMHO-02
			Sample Date:	07/26/09	07/26/09
1,1,1-Trichloroethane	800	680		5.9 U	5.7 U
1,1,2,2-Tetrachloroethane	600	--		5.9 U	5.7 U
1,1,2-Trichlorotrifluoroethane	6,000	--		5.9 U	5.7 U
1,2,3-Trichloropropane	400	--		5.9 U	5.7 U
1,1-Dichloroethane	200	270		5.9 U	5.7 U
1,1-Dichloroethene	400	330		5.9 U	5.7 U
1,2-Dichloroethane	100	20		5.9 U	5.7 U
1,3-Dichloropropane	300	--		5.9 U	5.7 U
2-Butanone (MEK)	300	120		12 U	5.7 U
4-Methyl-2-pentanone (MIBK)	1,000	--		5.9 U	5.7 U
Acetone	200	50		31	26 J
Benzene	60	60		1.2 U	1.1 U
Carbon disulfide	2,700	--		5.9 U	5.7 U
Carbon tetrachloride	600	760		5.9 U	5.7 U
Chlorobenzene	1,700	1,100		5.9 U	5.7 U
Chloroethane	1,900	--		5.9 U	5.7 U
Chloroform	300	370		5.9 U	5.7 U
Dibromochloromethane	--	--		5.9 U	5.7 U
Ethylbenzene	5,500	1,000		1.2 U	1.1 U
Methylene chloride	100	50		30 B	32 B
Tetrachloroethene	1,400	1,300		5.9 U	5.7 U
Toluene	1,500	700		1.2 U	1.1 U
trans-1,2-Dichloroethene	300	190		5.9 U	5.7 U
Trichloroethene	700	470		5.9 U	5.7 U
Vinyl chloride	200	20		5.9 U	5.7 U
Xylenes (total)	1,200	260		1.2 U	1.1 U

Notes:

U - Analyte was not detected at or above the reporting limit

B - Compound was found in the blank and sample

J - Estimated value

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Bold - Concentration exceeds NYSDEC RSCO

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	Off-Site Fill Material Type:			Amboy Aggregates Sand Prequalification FM-02	Amboy Aggregates Sand Post-Qualification No. 1 FM-05	Amboy Aggregates Sand Post-Qualification No. 2 FM-09
	NYSDEC RSCOs	Part 375 Unrestricted Use	Sample Designation: Sample Date:	10/31/06	01/11/07	03/01/07
1,2,4-Trichlorobenzene	3,400	--		5.3 U	27 U	6.3 U
1,2-Dichlorobenzene	7,900	8,400		5.3 U	27 U	6.3 U
1,3-Dichlorobenzene	1,600	2,400		5.3 U	27 U	6.3 U
1,4-Dichlorobenzene	8,500	1,800		5.3 U	27 U	6.3 U
2,4,5-Trichlorophenol	100	--		880 U	890 U	1,000 U
2,4-Dichlorophenol	400	--		350 U	890 U	420 U
2,4-Dinitrophenol	200	--		880 U	350 U	1,000 U
2,6-Dinitrotoluene	1,000	--		350 U	350 U	420 U
2-Chlorophenol	800	--		350 U	350 U	420 U
2-Methylnaphthalene	36,400	--		350 U	350 U	420 U
2-Methylphenol	100	330		350 U	350 U	420 U
2-Nitroaniline	430	--		880 U	890 U	1,000 U
2-Nitrophenol	330	--		350 U	350 U	420 U
3,3'-Dichlorobenzidine	--	--		350 U	350 U	420 U
3-Nitroaniline	500	--		880 U	890 U	1,000 U
4-Chloro-3-methylphenol	240	--		350 U	350 U	420 U
4-Chloroaniline	220	--		350 U	350 U	420 U
4-Nitrophenol	100	--		880 U	890 U	1,000 U
Acenaphthene	50,000	20,000		350 U	350 U	420 U
Acenaphthylene	50,000	100,000		350 U	350 U	420 U
Anthracene	50,000	100,000		350 U	350 U	420 U
Aniline	100	--		350 U	350 U	420 U
Benzo[a]anthracene	224	1,000		350 U	350 U	420 U
Benzo[a]pyrene	61	1,000		350 U	350 U	420 U
Benzo[b]fluoranthene	220	1,000		350 U	350 U	420 U
Benzo[g,h,i]perylene	50,000	100,000		350 U	350 U	420 U
Benzo[k]fluoranthene	220	800		350 U	350 U	420 U
Bis(2-ethylhexyl) phthalate	50,000	--		350 U	130 J	420 U
Butylbenzyl phthalate	50,000	--		350 U	350 U	420 U
Chrysene	400	1,000		350 U	350 U	420 U
Dibenzo[a,h]anthracene	14	330		350 U	350 U	420 U
Dibenzofuran	6,200	7,000		350 U	350 U	420 U
Diethyl phthalate	7,100	--		350 U	350 U	420 U
Dimethyl phthalate	2,000	--		350 U	350 U	420 U
Di-n-butyl phthalate	8,100	--		350 U	350 U	420 U
Di-n-octyl phthalate	50,000	--		350 U	350 U	420 U
Fluoranthene	50,000	100,000		350 U	350 U	420 U
Fluorene	50,000	30,000		350 U	350 U	420 U
Hexachlorobenzene	410	330		350 U	350 U	420 U
Indeno[1,2,3-cd]pyrene	3,200	500		350 U	350 U	420 U
Isophorone	4,400	--		350 U	350 U	420 U
Naphthalene	13,000	12,000		350 U	350 U	420 U
Nitrobenzene	200	--		350 U	350 U	420 U
Pentachlorophenol	1,000	800		880 U	890 U	1,000 U
Phenanthrene	50,000	100,000		350 U	350 U	420 U
Phenol	30	330		350 U	350 U	420 U
Pyrene	50,000	100,000		350 U	350 U	420 U

Notes:

- B - Compound was found in the blank and sample
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Off-Site Fill Material Type:				Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand
				Post-Qualification No. 3	Post-Qualification No. 4	Post-Qualification No. 5
Sample Designation:				FM-13	FM-23	FM-37
Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Sample Date:	03/27/07	05/23/07	06/28/07
1,2,4-Trichlorobenzene	3,400	--		5.5 U	5.2 U	5.4 U
1,2-Dichlorobenzene	7,900	8,400		5.5 U	5.2 U	5.4 U
1,3-Dichlorobenzene	1,600	2,400		5.5 U	5.2 U	5.4 U
1,4-Dichlorobenzene	8,500	1,800		5.5 U	5.2 U	5.4 U
2,4,5-Trichlorophenol	100	--		910 U	860 U	890 U
2,4-Dichlorophenol	400	--		360 U	340 U	350 U
2,4-Dinitrophenol	200	--		910 U	860 U	890 U
2,6-Dinitrotoluene	1,000	--		360 U	340 U	350 U
2-Chlorophenol	800	--		360 U	340 U	350 U
2-Methylnaphthalene	36,400	--		360 U	340 U	350 U
2-Methylphenol	100	330		360 U	340 U	350 U
2-Nitroaniline	430	--		910 U	860 U	890 U
2-Nitrophenol	330	--		360 U	340 U	350 U
3,3'-Dichlorobenzidine	--	--		360 U	340 U	350 U
3-Nitroaniline	500	--		910 U	860 U	890 U
4-Chloro-3-methylphenol	240	--		360 U	340 U	350 U
4-Chloroaniline	220	--		360 U	340 U	350 U
4-Nitrophenol	100	--		910 U	860 U	890 U
Acenaphthene	50,000	20,000		360 U	340 U	350 U
Acenaphthylene	50,000	100,000		360 U	340 U	350 U
Anthracene	50,000	100,000		360 U	340 U	350 U
Aniline	100	--		360 U	340 U	350 U
Benzo[a]anthracene	224	1,000		360 U	340 U	350 U
Benzo[a]pyrene	61	1,000		360 U	340 U	350 U
Benzo[b]fluoranthene	220	1,000		360 U	340 U	350 U
Benzo[g,h,i]perylene	50,000	100,000		360 U	340 U	350 U
Benzo[k]fluoranthene	220	800		360 U	340 U	350 U
Bis(2-ethylhexyl) phthalate	50,000	--		360 U	340 U	350 U
Butylbenzyl phthalate	50,000	--		360 U	340 U	350 U
Chrysene	400	1,000		360 U	340 U	350 U
Dibenzo[a,h]anthracene	14	330		360 U	340 U	350 U
Dibenzofuran	6,200	7,000		360 U	340 U	350 U
Diethyl phthalate	7,100	--		360 U	340 U	350 U
Dimethyl phthalate	2,000	--		360 U	340 U	350 U
Di-n-butyl phthalate	8,100	--		360 U	340 U	350 U
Di-n-octyl phthalate	50,000	--		360 U	340 U	350 U
Fluoranthene	50,000	100,000		360 U	59 J	350 U
Fluorene	50,000	30,000		360 U	340 U	350 U
Hexachlorobenzene	410	330		360 U	340 U	350 U
Indeno[1,2,3-cd]pyrene	3,200	500		360 U	340 U	350 U
Isophorone	4,400	--		360 U	340 U	350 U
Naphthalene	13,000	12,000		360 U	340 U	350 U
Nitrobenzene	200	--		360 U	340 U	350 U
Pentachlorophenol	1,000	800		910 U	860 U	890 U
Phenanthrene	50,000	100,000		360 U	71 J	350 U
Phenol	30	330		360 U	340 U	350 U
Pyrene	50,000	100,000		360 U	340 U	350 U

Notes:

- B - Compound was found in the blank and sample
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Sample Designation:	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand
				Sample Date:	Post-Qualification No. 6 FM-48	Post-Qualification No. 7 FM-56	Post-Qualification No. 8 FM-58
					08/02/07	09/05/07	09/24/09
1,2,4-Trichlorobenzene	3,400	--			5.6 U	5.3 U	5.2 U
1,2-Dichlorobenzene	7,900	8,400			5.6 U	5.3 U	5.2 U
1,3-Dichlorobenzene	1,600	2,400			5.6 U	5.3 U	5.2 U
1,4-Dichlorobenzene	8,500	1,800			5.6 U	5.3 U	5.2 U
2,4,5-Trichlorophenol	100	--			920 U	880 U	870 U
2,4-Dichlorophenol	400	--			370 U	350 U	350 U
2,4-Dinitrophenol	200	--			920 U	880 U	870 U
2,6-Dinitrotoluene	1,000	--			370 U	350 U	350 U
2-Chlorophenol	800	--			370 U	350 U	350 U
2-Methylnaphthalene	36,400	--			370 U	350 U	350 U
2-Methylphenol	100	330			370 U	350 U	350 U
2-Nitroaniline	430	--			920 U	880 U	870 U
2-Nitrophenol	330	--			370 U	350 U	350 U
3,3'-Dichlorobenzidine	--	--			370 U	350 U	350 U
3-Nitroaniline	500	--			920 U	880 U	870 U
4-Chloro-3-methylphenol	240	--			370 U	350 U	350 U
4-Chloroaniline	220	--			370 U	350 U	350 U
4-Nitrophenol	100	--			920 U	880 U	870 U
Acenaphthene	50,000	20,000			370 U	350 U	350 U
Acenaphthylene	50,000	100,000			370 U	350 U	350 U
Anthracene	50,000	100,000			370 U	350 U	350 U
Aniline	100	--			370 U	350 U	350 U
Benzo[a]anthracene	224	1,000			370 U	350 U	120 J
Benzo[a]pyrene	61	1,000			370 U	350 U	59 J
Benzo[b]fluoranthene	220	1,000			370 U	350 U	54 J
Benzo[g,h,i]perylene	50,000	100,000			370 U	350 U	76 J
Benzo[k]fluoranthene	220	800			370 U	350 U	350 U
Bis(2-ethylhexyl) phthalate	50,000	--			370 U	350 U	350 U
Butylbenzyl phthalate	50,000	--			370 U	350 U	350 U
Chrysene	400	1,000			370 U	350 U	190 J
Dibenzo[a,h]anthracene	14	330			370 U	350 U	350 U
Dibenzofuran	6,200	7,000			370 U	350 U	350 U
Diethyl phthalate	7,100	--			370 U	350 U	350 U
Dimethyl phthalate	2,000	--			370 U	350 U	350 U
Di-n-butyl phthalate	8,100	--			370 U	350 U	350 U
Di-n-octyl phthalate	50,000	--			370 U	350 U	350 U
Fluoranthene	50,000	100,000			370 U	58 J	350 U
Fluorene	50,000	30,000			370 U	350 U	350 U
Hexachlorobenzene	410	330			370 U	350 U	350 U
Indeno[1,2,3-cd]pyrene	3,200	500			370 U	350 U	350 U
Isophorone	4,400	--			370 U	350 U	350 U
Naphthalene	13,000	12,000			370 U	350 U	350 U
Nitrobenzene	200	--			370 U	350 U	350 U
Pentachlorophenol	1,000	800			920 U	880 U	870 U
Phenanthrene	50,000	100,000			370 U	59 J	350 U
Phenol	30	330			370 U	350 U	350 U
Pyrene	50,000	100,000			370 U	350 U	350 U

Notes:

- B - Compound was found in the blank and sample
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Off-Site Fill Material Type:			Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site
			Topsoil	Topsoil	Topsoil
			Prequalification	Prequalification	Post-Qualification No. 1
Sample Designation:			WYK-01	WYK-02	FM-30
Parameter	NYSDEC	Part 375			
(Concentrations in µg/kg)	RSCOs	Unrestricted Use	Sample Date:		
			03/01/07	03/01/07	06/26/07
1,2,4-Trichlorobenzene	3,400	--	390 U	740 U	5.2 U
1,2-Dichlorobenzene	7,900	8,400	390 U	740 U	5.2 U
1,3-Dichlorobenzene	1,600	2,400	390 U	740 U	5.2 U
1,4-Dichlorobenzene	8,500	1,800	11 J	740 U	5.2 U
2,4,5-Trichlorophenol	100	--	NA	NA	870 U
2,4-Dichlorophenol	400	--	NA	NA	350 U
2,4-Dinitrophenol	200	--	NA	NA	870 U
2,6-Dinitrotoluene	1,000	--	390 U	740 U	350 U
2-Chlorophenol	800	--	NA	NA	350 U
2-Methylnaphthalene	36,400	--	NA	NA	350 U
2-Methylphenol	100	330	NA	NA	350 U
2-Nitroaniline	430	--	NA	NA	870 U
2-Nitrophenol	330	--	NA	NA	350 U
3,3'-Dichlorobenzidine	--	--	1,900 U	3,600 U	350 U
3-Nitroaniline	500	--	NA	NA	870 U
4-Chloro-3-methylphenol	240	--	NA	NA	350 U
4-Chloroaniline	220	--	NA	NA	350 U
4-Nitrophenol	100	--	NA	NA	870 U
Acenaphthene	50,000	20,000	390 U	740 U	350 U
Acenaphthylene	50,000	100,000	390 U	740 U	350 U
Anthracene	50,000	100,000	390 U	740 U	350 U
Aniline	100	--	390 U	740 U	350 U
Benzo[a]anthracene	224	1,000	390 U	19 J	350 U
Benzo[a]pyrene	61	1,000	390 U	740 U	350 U
Benzo[b]fluoranthene	220	1,000	390 U	19 J	350 U
Benzo[g,h,i]perylene	50,000	100,000	390 U	740 U	350 U
Benzo[k]fluoranthene	220	800	390 U	740 U	350 U
Bis(2-ethylhexyl) phthalate	50,000	--	390 U	740 U	350 U
Butylbenzyl phthalate	50,000	--	390 U	740 U	350 U
Chrysene	400	1,000	390 U	15 J	350 U
Dibenzo[a,h]anthracene	14	330	390 U	740 U	350 U
Dibenzofuran	6,200	7,000	NA	NA	350 U
Diethyl phthalate	7,100	--	390 U	740 U	350 U
Dimethyl phthalate	2,000	--	390 U	740 U	350 U
Di-n-butyl phthalate	8,100	--	390 U	740 U	350 U
Di-n-octyl phthalate	50,000	--	390 U	740 U	350 U
Fluoranthene	50,000	100,000	11 J	25 J	350 U
Fluorene	50,000	30,000	390 U	740 U	350 U
Hexachlorobenzene	410	330	390 U	740 U	350 U
Indeno[1,2,3-cd]pyrene	3,200	500	390 U	741 U	350 U
Isophorone	4,400	--	390 U	740 U	350 U
Naphthalene	13,000	12,000	390 U	740 U	350 U
Nitrobenzene	200	--	390 U	740 U	350 U
Pentachlorophenol	1,000	800	NA	NA	870 U
Phenanthrene	50,000	100,000	390 U	740 U	350 U
Phenol	30	330	NA	NA	350 U
Pyrene	50,000	100,000	390 U	21 J	350 U

Notes:

- B - Compound was found in the blank and sample
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	Off-Site Fill Material Type:		Wyckoff Mills Site Topsoil Post-Qualification No. 2	Wyckoff Mills Site Topsoil Post-Qualification No. 3	Wyckoff Mills Site Topsoil Post-Qualification No. 4
	Sample Designation:		FM-31	FM-32	FM-33
	NYSDEC RSCOs	Part 375 Unrestricted Use	Sample Date: 06/26/07	06/26/07	06/26/07
1,2,4-Trichlorobenzene	3,400	--	5.3 U	5.5 U	5.3 U
1,2-Dichlorobenzene	7,900	8,400	5.3 U	5.5 U	5.3 U
1,3-Dichlorobenzene	1,600	2,400	5.3 U	5.5 U	5.3 U
1,4-Dichlorobenzene	8,500	1,800	5.3 U	5.5 U	5.3 U
2,4,5-Trichlorophenol	100	--	880 U	910 U	890 U
2,4-Dichlorophenol	400	--	350 U	360 U	350 U
2,4-Dinitrophenol	200	--	880 U	910 U	890 U
2,6-Dinitrotoluene	1,000	--	350 U	360 U	350 U
2-Chlorophenol	800	--	350 U	360 U	350 U
2-Methylnaphthalene	36,400	--	350 U	360 U	350 U
2-Methylphenol	100	330	350 U	360 U	350 U
2-Nitroaniline	430	--	880 U	910 U	890 U
2-Nitrophenol	330	--	350 U	360 U	350 U
3,3'-Dichlorobenzidine	--	--	350 U	360 U	350 U
3-Nitroaniline	500	--	880 U	910 U	890 U
4-Chloro-3-methylphenol	240	--	350 U	360 U	350 U
4-Chloroaniline	220	--	350 U	360 U	350 U
4-Nitrophenol	100	--	880 U	910 U	890 U
Acenaphthene	50,000	20,000	350 U	360 U	350 U
Acenaphthylene	50,000	100,000	350 U	360 U	350 U
Anthracene	50,000	100,000	350 U	360 U	350 U
Aniline	100	--	350 U	360 U	350 U
Benzo[a]anthracene	224	1,000	350 U	360 U	350 U
Benzo[a]pyrene	61	1,000	350 U	360 U	350 U
Benzo[b]fluoranthene	220	1,000	350 U	360 U	350 U
Benzo[g,h,i]perylene	50,000	100,000	350 U	360 U	350 U
Benzo[k]fluoranthene	220	800	350 U	360 U	350 U
Bis(2-ethylhexyl) phthalate	50,000	--	350 U	360 U	350 U
Butylbenzyl phthalate	50,000	--	350 U	360 U	350 U
Chrysene	400	1,000	350 U	360 U	350 U
Dibenzo[a,h]anthracene	14	330	350 U	360 U	350 U
Dibenzofuran	6,200	7,000	350 U	360 U	350 U
Diethyl phthalate	7,100	--	350 U	360 U	350 U
Dimethyl phthalate	2,000	--	350 U	360 U	350 U
Di-n-butyl phthalate	8,100	--	350 U	360 U	350 U
Di-n-octyl phthalate	50,000	--	350 U	360 U	350 U
Fluoranthene	50,000	100,000	350 U	360 U	350 U
Fluorene	50,000	30,000	350 U	360 U	350 U
Hexachlorobenzene	410	330	350 U	360 U	350 U
Indeno[1,2,3-cd]pyrene	3,200	500	350 U	360 U	350 U
Isophorone	4,400	--	350 U	360 U	350 U
Naphthalene	13,000	12,000	350 U	360 U	350 U
Nitrobenzene	200	--	350 U	360 U	350 U
Pentachlorophenol	1,000	800	880 U	910 U	890 U
Phenanthrene	50,000	100,000	350 U	160 J	350 U
Phenol	30	330	350 U	360 U	350 U
Pyrene	50,000	100,000	350 U	360 U	350 U

Notes:

- B - Compound was found in the blank and sample
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	Off-Site Fill Material Type:		Wyckoff Mills Site Topsoil Post-Qualification No. 5 FM-34	Wyckoff Mills Site Topsoil Post-Qualification No. 6 FM-35	Nature's Choice Site Topsoil Prequalification FM-19
	NYSDEC RSCOs	Part 375 Unrestricted Use	Sample Designation:	Sample Date:	
				06/26/07	05/08/07
1,2,4-Trichlorobenzene	3,400	--		5.7 U	6.8 U
1,2-Dichlorobenzene	7,900	8,400		5.7 U	6.8 U
1,3-Dichlorobenzene	1,600	2,400		5.7 U	6.8 U
1,4-Dichlorobenzene	8,500	1,800		5.7 U	6.8 U
2,4,5-Trichlorophenol	100	--		940 U	1,100 U
2,4-Dichlorophenol	400	--		370 U	450 U
2,4-Dinitrophenol	200	--		940 U	1,100 U
2,6-Dinitrotoluene	1,000	--		370 U	450 U
2-Chlorophenol	800	--		370 U	450 U
2-Methylnaphthalene	36,400	--		370 U	450 U
2-Methylphenol	100	330		370 U	450 U
2-Nitroaniline	430	--		940 U	1,100 U
2-Nitrophenol	330	--		370 U	450 U
3,3'-Dichlorobenzidine	--	--		370 U	450 U
3-Nitroaniline	500	--		940 U	1,100 U
4-Chloro-3-methylphenol	240	--		370 U	450 U
4-Chloroaniline	220	--		370 U	450 U
4-Nitrophenol	100	--		940 U	1,100 U
Acenaphthene	50,000	20,000		370 U	450 U
Acenaphthylene	50,000	100,000		370 U	450 U
Anthracene	50,000	100,000		71 J	450 U
Aniline	100	--		370 U	450 U
Benzo[a]anthracene	224	1,000		370 U	140 J
Benzo[a]pyrene	61	1,000		370 U	170 J
Benzo[b]fluoranthene	220	1,000		370 U	290 J
Benzo[g,h,i]perylene	50,000	100,000		370 U	450 U
Benzo[k]fluoranthene	220	800		370 U	450 U
Bis(2-ethylhexyl) phthalate	50,000	--		370 U	310 J
Butylbenzyl phthalate	50,000	--		370 U	450 U
Chrysene	400	1,000		370 U	180 J
Dibenzo[a,h]anthracene	14	330		370 U	450 U
Dibenzofuran	6,200	7,000		370 U	450 U
Diethyl phthalate	7,100	--		370 U	450 U
Dimethyl phthalate	2,000	--		370 U	450 U
Di-n-butyl phthalate	8,100	--		370 U	450 U
Di-n-octyl phthalate	50,000	--		370 U	450 U
Fluoranthene	50,000	100,000		120 J	210 J
Fluorene	50,000	30,000		370 U	450 U
Hexachlorobenzene	410	330		370 U	450 U
Indeno[1,2,3-cd]pyrene	3,200	500		370 U	58 J
Isophorone	4,400	--		370 U	450 U
Naphthalene	13,000	12,000		370 U	450 U
Nitrobenzene	200	--		370 U	450 U
Pentachlorophenol	1,000	800		940 U	1,100 U
Phenanthrene	50,000	100,000		250 J	450 U
Phenol	30	330		370 U	450 U
Pyrene	50,000	100,000		150 J	200 J

Notes:

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- U - Analyte was not detected at or above the reporting limit
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 5. Semivolatile Organic Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Nature's Choice Site Topsoil Post-Qualification No. 1	Nature's Choice Site Topsoil Post-Qualification No. 2
			Sample Designation:	FM-25	FM-47
			Sample Date:	06/07/07	07/20/07
1,2,4-Trichlorobenzene	3,400	--		6.8 U	8.9 U
1,2-Dichlorobenzene	7,900	8,400		6.8 U	8.9 U
1,3-Dichlorobenzene	1,600	2,400		6.8 U	8.9 U
1,4-Dichlorobenzene	8,500	1,800		6.8 U	8.9 U
2,4,5-Trichlorophenol	100	--		1,100 U	1,500 J
2,4-Dichlorophenol	400	--		450 U	590 U
2,4-Dinitrophenol	200	--		1,100 U	1,500 J
2,6-Dinitrotoluene	1,000	--		450 U	590 U
2-Chlorophenol	800	--		450 U	590 U
2-Methylnaphthalene	36,400	--		450 U	590 U
2-Methylphenol	100	330		450 U	590 U
2-Nitroaniline	430	--		1,100 U	1,500 J
2-Nitrophenol	330	--		450 U	590 U
3,3'-Dichlorobenzidine	--	--		450 U	590 U
3-Nitroaniline	500	--		1,100 U	1,500 J
4-Chloro-3-methylphenol	240	--		450 U	590 U
4-Chloroaniline	220	--		450 U	590 U
4-Nitrophenol	100	--		1,100 U	1,500 J
Acenaphthene	50,000	20,000		450 U	590 U
Acenaphthylene	50,000	100,000		450 U	590 U
Anthracene	50,000	100,000		450 U	590 U
Aniline	100	--		450 U	590 U
Benzo[a]anthracene	224	1,000		95 J	200 J
Benzo[a]pyrene	61	1,000		120 J	230 J
Benzo[b]fluoranthene	220	1,000		170 J	370 J
Benzo[g,h,i]perylene	50,000	100,000		110 J	610
Benzo[k]fluoranthene	220	800		450 U	590 U
Bis(2-ethylhexyl) phthalate	50,000	--		450 U	590 U
Butylbenzyl phthalate	50,000	--		450 U	590 U
Chrysene	400	1,000		120 J	240 J
Dibenzo[a,h]anthracene	14	330		450 U	590 U
Dibenzofuran	6,200	7,000		450 U	590 U
Diethyl phthalate	7,100	--		450 U	590 U
Dimethyl phthalate	2,000	--		450 U	590 U
Di-n-butyl phthalate	8,100	--		450 U	590 U
Di-n-octyl phthalate	50,000	--		450 U	590 U
Fluoranthene	50,000	100,000		160 J	430 J
Fluorene	50,000	30,000		450 U	590 U
Hexachlorobenzene	410	330		450 U	590 U
Indeno[1,2,3-cd]pyrene	3,200	500		93 J	450 J
Isophorone	4,400	--		450 U	590 U
Naphthalene	13,000	12,000		450 U	590 U
Nitrobenzene	200	--		450 U	590 U
Pentachlorophenol	1,000	800		1,100 U	590 U
Phenanthrene	50,000	100,000		450 U	190 J
Phenol	30	330		450 U	590 U
Pyrene	50,000	100,000		140 J	250 J

Notes:

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- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- - No Standard available
- ft bls - Feet below land surface
- µg/kg - Micrograms per kilogram
- SVOCs - Semivolatile Organic Compounds

Table 6. Metal Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC RSCOs	Part 375 Unrestricted	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand
			Sample Designation:	Prequalification FM-02	Post-Qualification No. 1 FM-05	Post-Qualification No. 2 FM-09	Post-Qualification No. 3 FM-13	Post-Qualification No. 4 FM-23
			Sample Date:	10/31/06	01/11/07	03/01/07	03/27/07	05/23/07
Aluminum	33,000	--		1,240	1,410	1,310	1,360	1,160
Antimony	4.3 (SB)	--		6.42 U	0.609 J	10.3	2.76 UN	2.6 U
Arsenic	9.7 (SB)	13		2.89	2.40	1.79	2.56	1.1 U
Barium	300	350		1.310 J	2.06 J	6.36 U	1.77 J	5.3 U
Beryllium	0.72 (SB)	7.2		0.114 J	0.2 J	0.154 J	0.156 J	0.16 J
Cadmium	1	2.5		0.106 J	0.541 U	0.228 J	0.331 U	0.32 U
Calcium	35,000	--		2,470	16,100	2,320	2,220	1,590
Chromium	15 (SB)	--		5.65	8.32	5.89	8.38	5.3
Cobalt	30	--		2.04 J	1.18 J	1.21 J	0.961 J	0.99 J
Copper	365 (SB)	50		1.24 J	16.6	1.61	11.2	2.0
Iron	17,000 (SB)	--		5,400	4,980	5,760	5,600	6,300
Lead	500	63		2.33	2.55	1.7	5.55	9.2
Magnesium	5,000	--		927	818	855	864	662
Manganese	5,000	1600		38.5	36.8	34.3	31.1	34.4
Mercury	0.3 (SB)	0.18		0.011 U	0.011 U	0.013 U	0.007 J	0.014
Nickel	34.9 (SB)	30		4.48	3.09 J	2.79	2.68	3.0
Potassium	43,000	--		268 J	1,130	639	883	510
Selenium	2	3.9		0.64 J	2.16 U	1.27 U	0.364 J	1.1 U
Silver	--	2		0.156 J	0.7 J	1.17	0.552 U	0.53 U
Sodium	8,000	--		647	7,730	1,250	1,160 N	441
Thallium	--	--		1.07 U	2.2	2.54 U	2.21 U	2.1 U
Vanadium	150	--		7.97	9.19	8.58	8.31	8.3
Zinc	333 (SB)	109		12.1	13.1	12.6	27.6	11.0

Notes:

- J - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
- U - Analyte was not detected at or above the reporting limit
- N - Presumptive evidence of a compound
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Concentration exceeds NYSDEC RSCO
- Bold - Concentration exceeds Restricted Residential standard
- No Standard available
- mg/kg - Milligrams per kilogram
- SB - Site Background
- NA - Not Analyzed

Table 6. Metal Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC RSCOs	Part 375 Unrestricted	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Wyckoff Mills Site Topsoil
				Post-Qualification No. 5	Post-Qualification No. 6	Post-Qualification No. 7	Post-Qualification No. 8	Prequalification
			Sample Designation:	FM-37	FM-48	FM-56	FM-58	WYK-01
			Sample Date:	06/28/07	08/02/07	09/05/07	09/24/09	03/01/07
Aluminum	33,000	--		820	1,080	NA	1,130	NA
Antimony	4.3 (SB)	--		2.7 U	2.8 U	NA	1.76 U	1.3 U
Arsenic	9.7 (SB)	13		1.1 U	2.15	2.73	1.31	3.2
Barium	300	350		5.4 U	2.64 J	0.866 J	0.819 J	NA
Beryllium	0.72 (SB)	7.2		0.09 J	0.149 J	NA	0.154 J	0.33 J
Cadmium	1	2.5		0.32 U	0.432 J	0.321 J	0.234 J	0.091 U
Calcium	35,000	--		1,960	1,860	NA	1,890	NA
Chromium	15 (SB)	--		3.7	4.55	5.61	5.9	13.8
Cobalt	30	--		1.3 J	1.65 J	NA	1.38	NA
Copper	365 (SB)	50		1.5	1.87	NA	1.62	NA
Iron	17,000 (SB)	--		3,660	4,320	NA	4,350	NA
Lead	500	63		6.5	2.56	2.37	2.14	4.2 J
Magnesium	5,000	--		528	684	NA	593	NA
Manganese	5,000	1600		27.4	38.2	NA	31	NA
Mercury	0.3 (SB)	0.18		0.011 U	0.011 U	0.011 U	0.004 JN	0.019 U
Nickel	34.9 (SB)	30		2.1 J	2.76	NA	3.13	3.3 J
Potassium	43,000	--		311	431	NA	564	NA
Selenium	2	3.9		0.019 J	1.12 U	0.424 J	0.225 J	0.95 U
Silver	--	2		0.54 U	0.402 J	0.354 U	0.147 J	0.32 U
Sodium	8,000	--		1,820	1,060	NA	691	NA
Thallium	--	--		2.1 U	2.24 U	NA	1.41 U	1.1 U
Vanadium	150	--		4.6	6.81	NA	6.69	NA
Zinc	333 (SB)	109		8.6	11.8	NA	10.8	12.3

Notes:

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- U - Analyte was not detected at or above the reporting limit
- N - Presumptive evidence of a compound
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Concentration exceeds NYSDEC RSCO
- Bold - Concentration exceeds Restricted Residential standard
- No Standard available
- mg/kg - Milligrams per kilogram
- SB - Site Background
- NA - Not Analyzed

Table 6. Metal Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC RSCOs	Part 375 Unrestricted	Off-Site Fill Material Type:	Wyckoff Mills Site Topsoil	Wyckoff Mills Site Topsoil	Wyckoff Mills Site Topsoil	Wyckoff Mills Site Topsoil	Wyckoff Mills Site Topsoil
			Sample Designation:	Prequalification WYK-02	Post-Qualification No. 1 FM-30	Post-Qualification No. 2 FM-31	Post-Qualification No. 3 FM-32	Post-Qualification No. 4 FM-33
			Sample Date:	03/01/07	06/26/07	06/26/07	06/26/07	06/26/07
Aluminum	33,000	--		NA	5,420	6,440	5,960	6,340
Antimony	4.3 (SB)	--		1.3 U	2.64 U	2.66 U	2.68 U	2.69 U
Arsenic	9.7 (SB)	13		2	4.08	5.16	4.98	3.30
Barium	300	350		NA	25.3	29.7	27	31.2
Beryllium	0.72 (SB)	7.2		0.22 J	0.368	0.372	0.404	0.398
Cadmium	1	2.5		0.092 U	0.308 J	0.302 J	0.413	0.252 J
Calcium	35,000	--		NA	602	702	618	683
Chromium	15 (SB)	--		11.8	12	14.4	13.6	13.6
Cobalt	30	--		NA	2.08	1.74	2.35	1.93
Copper	365 (SB)	50		NA	5.47	6.14	6.28	5.86
Iron	17,000 (SB)	--		NA	10,200	10,300	11,600	9,040
Lead	500	63		3.1 J	8.92	11.7	9.8	9.12
Magnesium	5,000	--		NA	657	639	753	738
Manganese	5,000	1600		NA	57.3	44.5	79.1	48.1
Mercury	0.3 (SB)	0.18		0.019 U	0.023	0.026	0.031	0.022
Nickel	34.9 (SB)	30		3.3 J	3.25	3.72	3.81	3.6
Potassium	43,000	--		NA	330	341	404	374
Selenium	2	3.9		0.96 U	1.06 U	1.06 U	1.07 U	1.08 U
Silver	--	2		0.32 U	0.528 U	0.199 J	0.270 J	0.538 U
Sodium	8,000	--		NA	144	156	144	147
Thallium	--	--		1.1 U	2.11 U	2.13 U	2.15 U	2.15 U
Vanadium	150	--		NA	19.7	23.6	22	19.6
Zinc	333 (SB)	109		11.6	18.4	19.7	21.4	19.3

Notes:

- J - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
- U - Analyte was not detected at or above the reporting limit
- N - Presumptive evidence of a compound
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Concentration exceeds NYSDEC RSCO
- Bold - Concentration exceeds Restricted Residential standard
- No Standard available
- mg/kg - Milligrams per kilogram
- SB - Site Background
- NA - Not Analyzed

Table 6. Metal Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in mg/kg)	NYSDEC RSCOs	Part 375 Unrestricted	Off-Site Fill Material Type:	Wyckoff Mills Site Topsoil	Wyckoff Mills Site Topsoil	Nature's Choice Site Topsoil	Nature's Choice Site Topsoil	Nature's Choice Site Topsoil
				Post-Qualification No. 5	Post-Qualification No. 6	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2
			Sample Designation:	FM-34	FM-35	FM-19	FM-25	FM-47
			Sample Date:	06/26/07	06/26/07	05/08/07	06/07/07	07/20/07
Aluminum	33,000	--		7,430	5,510	4,490	3,420	6,440
Antimony	4.3 (SB)	--		2.83 U	2.74 U	3.45 U	3.4 U	4.46 U
Arsenic	9.7 (SB)	13		4.57	5.56	5.38	3.60	6.22
Barium	300	350		39.8	25.7	40.2	38.1	66.6
Beryllium	0.72 (SB)	7.2		0.466	0.404	0.288 J	0.18 J	0.479 J
Cadmium	1	2.5		0.374	0.38	0.719	0.41 U	0.750 U
Calcium	35,000	--		998	617	11,300	3,760	35,100
Chromium	15 (SB)	--		15.3	13.2	8.35	6.7	13.4
Cobalt	30	--		1.96	2.26	5.26	4.3	6.26
Copper	365 (SB)	50		8.3	5.95	18.4	33.7	35.1
Iron	17,000 (SB)	--		11,200	11,300	8,720	8,910	12,700
Lead	500	63		13.9	9.54	27	53.4	43.6
Magnesium	5,000	--		824	711	2,080	1,610	18,300
Manganese	5,000	1600		52.3	67.8	289	323	524
Mercury	0.3 (SB)	0.18		0.024	0.02	0.03	0.012	0.031
Nickel	34.9 (SB)	30		4.21	3.25	11.2	9.2	11.6
Potassium	43,000	--		419	390	1,420	982	3,530
Selenium	2	3.9		1.13 U	1.1 U	0.596 J	0.73 J	0.746 J
Silver	--	2		0.268 J	0.214 J	0.330 J	0.69 U	0.557 J
Sodium	8,000	--		189	143	460	678	646
Thallium	--	--		2.27 U	2.19 U	2.76 U	2.8 U	3.57 U
Vanadium	150	--		22.8	20.4	8.91	7.1	18.8
Zinc	333 (SB)	109		25	21.3	62.6	55.8	102

Notes:

- J - Reported value is less than the Reporting Limit but greater than the Instrument Detection Limit.
- U - Analyte was not detected at or above the reporting limit
- N - Presumptive evidence of a compound
- NA - Not Analyzed
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Concentration exceeds NYSDEC RSCO
- Bold - Concentration exceeds Restricted Residential standard
- No Standard available
- mg/kg - Milligrams per kilogram
- SB - Site Background
- NA - Not Analyzed

Table 7. Polychlorinated Biphenyl Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type: Sample Designation: Sample Date:	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates
				Sand	Sand	Sand	Sand	Sand
				Prequalification FM-02	Post-Qualification No. 1 FM-05	Post-Qualification No. 2 FM-09	Post-Qualification No. 3 FM-13	Post-Qualification No. 4 FM-23
				10/31/06	01/11/07	03/01/07	03/27/07	05/23/07
Aroclor-1016	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1221	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1232	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1242	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1248	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1254	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1260	--	--		18 U	18 U	21 U	18 U	18 U
Aroclor-1262	--	--		18 U	18 U	21 U	18 U	18 U
Total PCBs:	10,000	1,000		0	0	0	0	0

Notes:

- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- No Standard available
- µg/kg - Micrograms per kilogram
- PCBs - Polychlorinated Biphenyl Compounds

Table 7. Polychlorinated Biphenyl Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Wyckoff Mills Site Topsoil
			Sample Designation:	Post-Qualification No. 5	Post-Qualification No. 6	Post-Qualification No. 7	Post-Qualification No. 8	Prequalification
			Sample Date:	FM-37	FM-48	FM-56	FM-58	WYK-01
				06/28/07	08/02/07	09/05/07	09/24/09	03/01/07
Aroclor-1016	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1221	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1232	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1242	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1248	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1254	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1260	--	--		18 U	19 U	18 U	18 U	76 U
Aroclor-1262	--	--		18 U	19 U	18 U	18 U	76 U
Total PCBs:	10,000	1,000		0	0	0	0	0

Notes:

- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- No Standard available
- µg/kg - Micrograms per kilogram
- PCBs - Polychlorinated Biphenyl Compounds

Table 7. Polychlorinated Biphenyl Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type: Sample Designation: Sample Date:	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site
				Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
				Prequalification WYK-02	Post-Qualification No. 1 FM-30	Post-Qualification No. 2 FM-31	Post-Qualification No. 3 FM-32	Post-Qualification No. 4 FM-33
				03/01/07	06/26/07	06/26/07	06/26/07	06/26/07
Aroclor-1016	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1221	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1232	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1242	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1248	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1254	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1260	--	--		77 U	18 U	18 U	18 U	18 U
Aroclor-1262	--	--		77 U	18 U	18 U	18 U	18 U
Total PCBs:	10,000	1,000		0	0	0	0	0

Notes:

- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- No Standard available
- µg/kg - Micrograms per kilogram
- PCBs - Polychlorinated Biphenyl Compounds

Table 7. Polychlorinated Biphenyl Compounds Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type: Sample Designation: Sample Date:	Wyckoff Mills Site	Wyckoff Mills Site	Nature's Choice Site	Nature's Choice Site	Nature's Choice Site
				Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
				Post-Qualification No. 5	Post-Qualification No. 6	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2
				FM-34	FM-35	FM-19	FM-25	FM-47
				06/26/07	06/26/07	05/08/07	06/07/07	07/20/07
Aroclor-1016	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1221	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1232	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1242	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1248	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1254	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1260	--	--		19 U	18 U	23 U	23 U	30 U
Aroclor-1262	--	--		19 U	18 U	23 U	23 U	30 U
Total PCBs:	10,000	1,000		0	0	0	0	0

Notes:

- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- RSCOs - Recommended Soil Cleanup Objectives
- Bold - Concentration exceeds NYSDEC RSCO
- No Standard available
- µg/kg - Micrograms per kilogram
- PCBs - Polychlorinated Biphenyl Compounds

Table 8. Pesticides/ Herbicides Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type: Sample Designation: Sample Date:	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates	Amboy Aggregates
				Sand	Sand	Sand	Sand	Sand
				Prequalification FM-02	Post-Qualification No. 1 FM-05	Post-Qualification No. 2 FM-09	Post-Qualification No. 3 FM-13	Post-Qualification No. 4 FM-23
				10/31/06	01/11/07	03/01/07	03/27/07	05/23/07
<u>Pesticides</u>								
4,4'-DDD	2,900	3.3		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
4,4'-DDE	2,100	3.3		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
4,4'-DDT	2,100	3.3		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Aldrin	41	5		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
alpha-BHC	110	20		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Chlordane	540	--		18 U	18 U	21 U	18 U	18 U
beta-BHC	200	36		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
delta-BHC	300	40		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Dieldrin	44	94		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Endosulfan I	900	2,400		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Endosulfan II	900	2,400		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Endosulfan sulfate	1,000	2,400		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Endrin	100	14		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
gamma-BHC (Lindane)	60	100		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
gamma-Chlordane	540	--		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Heptachlor epoxide	20	--		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
Heptachlor	100	42		3.1 U	3.2 U	3.8 U	3.3 U	3.1 U
<u>Herbicides</u>								
2,4-D	500	--		73 U	74 U	87 U	75 U	73 U
2,4,5-TP (Silvex)	700	3,800		73 U	74 U	87 U	75 U	73 U
2,4,5-T	1,900	--		73 U	74 U	87 U	75 U	73 U

Notes:

U - Analyte was not detected at or above the reporting limit

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

Table 8. Pesticides/ Herbicides Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Amboy Aggregates Sand	Wyckoff Mills Site Topsoil
			Sample Designation:	Post-Qualification No. 5	Post-Qualification No. 6	Post-Qualification No. 7	Post-Qualification No. 8	Prequalification
				FM-37	FM-48	FM-56	FM-58	WYK-01
				Sample Date:	06/28/07	08/02/07	09/05/07	09/24/09
<u>Pesticides</u>								
4,4'-DDD	2,900	3.3		3.2 U	3.4 U	3.1 U	3.1 U	15
4,4'-DDE	2,100	3.3		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
4,4'-DDT	2,100	3.3		3.2 U	3.4 U	3.1 U	3.1 U	51
Aldrin	41	5		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
alpha-BHC	110	20		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Chlordane	540	--		18 U	19 U	18 U	18 U	76 U
beta-BHC	200	36		3.2 U	3.4 U	3.1 U	3.1 U	22
delta-BHC	300	40		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Dieldrin	44	94		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Endosulfan I	900	2,400		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Endosulfan II	900	2,400		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Endosulfan sulfate	1,000	2,400		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Endrin	100	14		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
gamma-BHC (Lindane)	60	100		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
gamma-Chlordane	540	--		3.2 U	3.4 U	3.1 U	3.1 U	NA
Heptachlor epoxide	20	--		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
Heptachlor	100	42		3.2 U	3.4 U	3.1 U	3.1 U	7.6 U
<u>Herbicides</u>								
2,4-D	500	--		74 U	78 U	73 U	73 U	19 U
2,4,5-TP (Silvex)	700	3,800		74 U	78 U	73 U	73 U	19 U
2,4,5-T	1,900	--		74 U	78 U	73 U	73 U	19 U

Notes:

U - Analyte was not detected at or above the reporting limit

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

Table 8. Pesticides/ Herbicides Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type: Sample Designation: Sample Date:	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site	Wyckoff Mills Site
				Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
				Prequalification WYK-02	Post-Qualification No. 1 FM-30	Post-Qualification No. 2 FM-31	Post-Qualification No. 3 FM-32	Post-Qualification No. 4 FM-33
				03/01/07	06/26/07	06/26/07	06/26/07	06/26/07
<u>Pesticides</u>								
4,4'-DDD	2,900	3.3		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
4,4'-DDE	2,100	3.3		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
4,4'-DDT	2,100	3.3		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Aldrin	41	5		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
alpha-BHC	110	20		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Chlordane	540	--		7.7 U	17 U	18 U	18 U	18 U
beta-BHC	200	36		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
delta-BHC	300	40		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Dieldrin	44	94		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Endosulfan I	900	2,400		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Endosulfan II	900	2,400		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Endosulfan sulfate	1,000	2,400		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Endrin	100	14		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
gamma-BHC (Lindane)	60	100		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
gamma-Chlordane	540	--		NA	3.1 U	3.2 U	3.3 U	3.2 U
Heptachlor epoxide	20	--		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
Heptachlor	100	42		7.7 U	3.1 U	3.2 U	3.3 U	3.2 U
<u>Herbicides</u>								
2,4-D	500	--		19 U	73 U	74 U	77 U	74 U
2,4,5-TP (Silvex)	700	3,800		19 U	73 U	74 U	77 U	74 U
2,4,5-T	1,900	--		19 U	73 U	74 U	77 U	74 U

Notes:

U - Analyte was not detected at or above the reporting limit

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

Table 8. Pesticides/ Herbicides Detected in Off-Site Fill Materials
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs	Part 375 Unrestricted Use	Off-Site Fill Material Type:	Wyckoff Mills Site	Wyckoff Mills Site	Nature's Choice Site	Nature's Choice Site	Nature's Choice Site
				Topsoil	Topsoil	Topsoil	Topsoil	Topsoil
				Post-Qualification No. 5	Post-Qualification No. 6	Prequalification	Post-Qualification No. 1	Post-Qualification No. 2
			Sample Designation:	FM-34	FM-35	FM-19	FM-25	FM-47
Sample Date:								
				06/26/07	06/26/07	05/08/07	06/07/07	07/20/07
Pesticides								
4,4'-DDD	2,900	3.3		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
4,4'-DDE	2,100	3.3		3.4 U	3.3 U	4.0 U	4.1 U	8.7 P
4,4'-DDT	2,100	3.3		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Aldrin	41	5		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
alpha-BHC	110	20		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Chlordane	540	--		19 U	18 U	23 U	23 U	30 U
beta-BHC	200	36		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
delta-BHC	300	40		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Dieldrin	44	94		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Endosulfan I	900	2,400		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Endosulfan II	900	2,400		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Endosulfan sulfate	1,000	2,400		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Endrin	100	14		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
gamma-BHC (Lindane)	60	100		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
gamma-Chlordane	540	--		3.4 U	3.3 U	4.0 U	4.1 U	7.9
Heptachlor epoxide	20	--		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Heptachlor	100	42		3.4 U	3.3 U	4.0 U	4.1 U	5.3 U
Herbicides								
2,4-D	500	--		78 U	76 U	95 U	95 U	120 U
2,4,5-TP (Silvex)	700	3,800		78 U	76 U	95 U	95 U	120 U
2,4,5-T	1,900	--		78 U	76 U	95 U	95 U	120 U

Notes:

U - Analyte was not detected at or above the reporting limit

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NA - Not Analyzed

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

-- No Standard available

ft bls - Feet below land surface

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

Table 9. Waste Disposal Summary for Construction and Demolition Debris and Bulky Waste
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Date	Quantity (Cubic Yards)	Material Description
04/02/07	30	Scrap Metal
05/18/07	30	Scrap Metal
07/18/07	30	Rail Road Ties
07/18/07	30	Rail Road Ties
07/20/07	30	Rail Road Ties
07/20/07	30	Rail Road Ties
07/26/07	30	Vegetative Debris
07/26/07	30	Vegetative Debris
07/26/07	30	Vegetative Debris
07/26/07	30	Vegetative Debris
07/26/07	30	Rail Road Ties
07/27/07	30	Vegetative Debris
07/27/07	30	Vegetative Debris
07/27/07	30	Vegetative Debris
07/27/07	30	Site debris - trash
07/27/07	30	Site debris - trash
07/27/07	30	Scrap Metal
07/30/07	30	Rail Road Ties
07/30/07	30	Site debris - trash
08/06/07	30	Aqua Dam Debris
08/06/07	30	Aqua Dam Debris
08/06/07	30	Aqua Dam Debris
08/06/07	30	Scrap Metal
08/07/07	30	Aqua Dam Debris
08/07/07	30	Aqua Dam Debris
08/07/07	30	Aqua Dam Debris
08/07/07	30	Aqua Dam Debris
08/08/07	30	Aqua Dam Debris
08/31/07	Not Applicable	50 Pieces RR Steel via Flat Bed Truck, No Ticket Provided
08/31/07	30	General Debris, No Ticket Provided
09/12/07	30	General Debris
09/12/07	30	General Debris
09/26/07	30	General Debris
10/04/07	30	General Debris
10/04/08	30	General Debris
10/15/07	30	General Debris
10/15/07	30	General Debris
10/16/07	30	General Debris
10/26/07	30	Concrete and rebar, No Ticket Provided
10/30/07	30	General Debris
10/30/07	30	Concrete and rebar
11/01/07	30	Concrete and rebar
11/05/07	30	Concrete and rebar
11/05/07	30	Concrete and rebar
11/05/07	30	Concrete and rebar
11/09/07	30	General Debris
11/09/07	30	General Debris
11/13/07	30	General Debris
11/20/07	30	General Debris
11/20/07	30	General Debris
11/20/07	30	General Debris
11/21/07	30	General Debris
11/27/07	30	General Debris

Table 10. Waste Disposal Summary for Hazardous Waste
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Date	Manifest	Estimated Weight (lbs)	Estimated Weight (tons)	Actual Weight (tons)
CB-13 Material Shipped to EQ (Michigan)				
08/13/07	002861227 JJK	26,000	13.00	13.29
Oil Impacted Material and Remaining Sediment Shipped to EQ (Michigan)				
09/24/07	002861228 JJK	48,000	24.00	24.36
	002861230 JJK	46,000	23.00	20.97
	002861231 JJK	47,000	23.50	25.31
09/25/07	002861233 JJK	48,000	24.00	26.54
	002861234 JJK	46,000	23.00	27.80
	002861235 JJK	48,000	24.00	25.06
09/26/07	002861236 JJK	46,000	23.00	24.04
	002861237 JJK	46,000	23.00	30.57
	002861238 JJK	48,000	24.00	24.03
	002861239 JJK	48,000	24.00	22.40
09/27/07	002861240 JJK	47,000	23.50	25.10
	002861241 JJK	48,000	24.00	23.84
	002861242 JJK	48,000	24.00	26.25
	000310460 FLE	44,000	22.00	22.45
	000310461 FLE	46,000	23.00	25.05
09/28/07	000310462 FLE	46,000	23.00	25.57
	000310463 FLE	46,000	23.00	34.18
	000310456 FLE	43,000	21.50	23.46
	000310457 FLE	46,000	23.00	25.13
	000310458 FLE	46,000	23.00	21.71
			Total Actual Weight (tons)	503.82
Sewer Sediment Material Shipped to Viola (Texas)				
08/20/07	000310415 FLE	21,000	23.15	21.81

Table 11. Waste Disposal Summary for Non-Hazardous Treatment System Spent Media
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Date	Disposal Facility	Manifest Number	Estimated Weight (lbs)
08/20/07	Cycle Chem's Facility Elizabeth, New Jersey	000310415 FLE	21,000
10/17/07		NAU01	6,000
10/18/07		NAU02	5,000
		Total	32,000

Table 12. Waste Disposal Summary for Non-Hazardous Treatment System Spent Media
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, NY

Date	Disposal Facility	Bill of Lading Number	Volume
03/08/07	Clean Waters of New York Disposal Facility Staten Island, New York	092675	5,100
03/16/07		092732	3,612
03/22/07		092733	1,687
		Total	10,399

Table 12. Waste Disposal Summary for Non-Hazardous Treatment System Spent Media
Final Engineering Report for OU-1, Site No. V-00159-2
Nassau Metals Corporation, Staten Island, New York

Date	Disposal Facility	Bill of Lading Number	Volume
03/08/07	Clean Waters of New York Disposal Facility Staten Island, New York	092675	5,100
03/16/07		092732	3,612
03/22/07		092733	1,687
		Total	10,399