



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION III

STATEMENT OF BASIS

NATIONAL CAN CORPORATION
FORMER U.S. STEEL FAIRLESS WORKS
1001 NEW FORD MILL ROAD

FAIRLESS HILLS, PENNSYLVANIA

EPA ID NO. PAD04655941

Prepared by
Office of Pennsylvania Remediation
Land and Chemicals Division
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List of Acronyms

AOC	Areas of Concern
AR	Administrative Record
AST	Above Ground Storage Tank
COC	Contaminants of Concern
EPA	Environmental Protection Agency
FDRTC	Final Decision Response to Comments
GPRA	Government Performance and Results Act
MCL	Maximum Contaminant Level
MSC	Medium Specific Concentration
PADEP	Pennsylvania Department of Environmental Protection
RCRA	Resource Conservation and Recovery Act
RSL	Regional Screening Level
SB	Statement of Basis
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Section 1: Introduction

The United States Environmental Protection Agency (EPA) has prepared this Statement of Basis (SB) to solicit public comment on its proposed remedy for a 14.2-acre parcel (Parcel) located within the US Steel Fairless Works Facility (Facility) located on 2500 acres in Fairless Hills, Pennsylvania. The Parcel was formerly leased and operated by National Can Corporation from 1967 until 1989. The Facility, including the Parcel, is subject to the corrective action provisions of the Resource Conservation and Recovery Act (RCRA). In 1993, EPA and USX Corporation (currently US Steel) entered into a RCRA Consent Order to remediate the Facility. The Parcel is currently owned by Samax Enterprises Inc.

EPA's proposed remedy for the Parcel requires implementation and/or maintenance of groundwater and land use restrictions. This SB highlights key information relied upon by EPA in proposing its remedy for the Parcel. In 2008, the Pennsylvania Department of Environmental Protection (PADEP) required U.S. Steel to implement use restrictions pursuant to the Pennsylvania Uniform Environmental Covenants Act, 27 Pa. C.S. Sections 6501-6517 (UECA). These use restrictions meet the requirements of EPA's proposed remedy. Further groundwater monitoring and/or remediation at the Parcel will be part of a Statement of Basis that addresses groundwater contamination beneath the entire 2500-acre Facility.

The Facility is subject to EPA's Corrective Action Program under the Solid Waste Disposal Act, as amended, commonly referred to as the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §§ 6901 *et seq.* The Corrective Action Program requires that facilities subject to certain provisions of RCRA be investigated and releases of hazardous waste and hazardous constituents, usually in the form of soil or groundwater contamination, that have occurred at or from their property, be addressed. The Commonwealth of Pennsylvania (Commonwealth) is not authorized for the Corrective Action Program under Section 3006 of RCRA. Therefore, EPA retains primary authority in the Commonwealth for the Corrective Action Program.

EPA is providing a thirty (30) day public comment period on this SB. EPA may modify its proposed remedy based on comments received during this period. EPA will announce its selection of a final remedy for the Parcel in a Final Decision and Response to Comments (Final Decision) after the public comment period has ended.

Information on the Corrective Action Program as well as a fact sheet for the Parcel can be found by navigating <http://www.epa.gov/reg3wcmd/correctiveaction.htm>. The Administrative Record (AR) for the Parcel contains all documents, including data and quality assurance information, on which EPA's proposed remedy is based. See Section 8, Public Participation, below, for information on how you may review the AR.

Section 2: Facility Background

The Parcel is located at 1001 Newford Mill Road, Fairless Hills, Pennsylvania (geographic coordinates of 40° 9' 35.76" North, -74° 46' 3.43" West) in the western portion of the Facility. It is located on the Delaware River 20 miles north of Philadelphia in an area that is currently zoned for industrial use. The Parcel is currently vacant and is occupied by a 172,732 square foot warehouse, 4,916 square feet of office space and 112 paved parking spaces.

The Facility has been in operation since 1952. It once consisted of a fully integrated steel mill; it housed a coke production plant, a steel making operation, finishing and forging operations, a powerhouse and a chemical plant. The former National Can Corporation plant tinned steel for producing cans, and was never directly associated with steel making operations. The Facility is still home to a U.S. Steel finishing facility where sheet metal products are finished into galvanized sheet metal. The rest of the operations were closed down between 1982 and 1991. As part of the redevelopment of the Facility, demolition of the inactive facilities occurred between 1993 and 1995, and parcel-by-parcel investigations and cleanups are underway.

In 1998, U.S. Steel submitted a Notice of Intent to remediate under the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2), 35 P.S. Sections 6026.101 et seq. In 2005, U.S. Steel joined the EPA Region 3 *One Cleanup Program* – which provides a framework for RCRA facilities to satisfy EPA corrective action obligations while concurrently receiving a release from liability from PADEP for remediation when Act cleanup standards are met. In 2008, Samax received a Final Report approval from PADEP stating the investigation and remediation of the soil at the Parcel was complete under Act 2.

Section 3: Summary of Environmental Investigations

3.1 Environmental Investigations

EPA is basing its proposed remedy on several environmental investigations completed pursuant to the One Cleanup Program. As these investigations followed guidelines laid out in the Act 2 Technical Guidance, this document will refer to “Act 2” or “Pennsylvania Statewide Health Standards” (SHSs) to remain consistent with the investigation reports. Pennsylvania SHSs are equivalent to with EPA risk-based standards for the individual contaminants found at the Parcel.

3.1.1 Soil Investigation

In 1997, twelve samples were collected from surface soil surrounding the front loading dock area, near the outlet for a roof drain located at the northeastern corner of the Parcel and along the rear fence line. Semi-volatile Organic Compounds (SVOC) and metals were detected in the soil. Two soil samples collected as part of the investigations of these areas detected benzo(a)pyrene at concentrations slightly above the applicable Non-Residential Statewide Health Soil Standards. The data were used to identify potential areas of concern (AOCs) and to focus further investigations which took place in October 2007.

The Parcel Investigation/Characterization activities consisted of completing 15 test pits and the collection of 32 soil samples. The soil analytical results were compared to SHSs for direct contact exposure. Parcel soils were also compared to the soil to groundwater pathway SHSs based on the non-use aquifer criteria defined as groundwater that is not used or currently planned to be used. Previous sampling results were used to assess historic Parcel conditions. The results for the October 30, 2007 thru November 1, 2007 soil sampling analysis to characterize current conditions are summarized in Table 1.

There were no Target Compound List (TCL), Volatile Organic Compounds (VOC), Poly Aromatic Hydrocarbons (PAH), Polychlorinated Bi-Phenyls (PCBs), or Metals detected in soil samples at concentrations above applicable Pennsylvania Direct Contact Non-Residential SHS criteria. Benzo(a)pyrene was detected at much lower concentrations than found during the 1997 sampling event and therefore is not considered to be a contaminant of concern (COC) for nonresidential use.

3.1.2. Groundwater Investigation

Approximately 150 groundwater monitoring wells were installed throughout the Facility to investigate and to monitor groundwater. Generally, the wells are 40 feet or less in depth and are screened in aquifers that underlie confining beds. A limited number of areas throughout the Facility property were found to be sources of contamination to groundwater. These areas are localized, contributing small amounts of organic contaminants, such as TCE, benzene, and naphthalene and inorganic constituents, such as mercury, lead, and iron. The groundwater results

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show levels elevated above federal Maximum Contaminant Levels (MCLs).

One of the 150 groundwater monitoring well, well (MW5-41-19), is located on the Parcel in the southwestern portion. In December 1996 and November 2000, groundwater from this well was sampled and analyzed for VOCs, SVOCs, pesticides/PCBs, total cyanide, total phenols, and metals. No target compounds were detected above the Non Use Aquifer groundwater SHSs or MCLs.

The unconfined aquifer beneath the Parcel is not currently used for any purpose nor are there plans for future use. The aquifer is shallow (less than 15 feet below ground surface) and its saturated thickness (20 to 40 feet) makes it an unlikely source for municipal supply. In addition, the aquifer is characterized by naturally occurring concentrations of iron and manganese that exceed EPA's Secondary Maximum Contaminant Levels for these constituents, which would affect taste and color and may cause staining and corrosion if used.

In 1999, PADEP approved a *non-use aquifer* designation for the unconfined aquifer immediately beneath the Facility including the Parcel. This approval means that there are no private domestic wells on the Facility or within 1,000 feet of the downgradient Facility boundary. This designation also requires confirmation from the local water supplier (Falls Township Water Authority) that there are no plans for future use.

3.1.3. Summary of Remedial Activities Completed

Six underground steel storage tanks (USTs) (five 8,000 gallon and one 6,000 gallon) were used to store raw materials for can-coating processes. The raw liquid materials, including solvents, primers, and varnishes were stored in the USTs and discharged into drums as needed.

The six USTs were removed by 1995. During removal activities, about 300 cubic yards of impacted soil and debris that was associated with the USTs were excavated. Impacted soils were transported to Waste Management's G.R.O.W.s Landfill in Morrisville, Pennsylvania for disposal.

3.2 Environmental Indicators

Under the Government Performance and Results Act (GPRA), EPA has set national goals to address RCRA corrective action facilities. Under GPRA, EPA evaluates two key environmental clean-up indicators for each facility: (1) Current Human Exposures Under Control, and (2) Migration of Contaminated Groundwater Under Control. The Parcel met the goals for both of these indicators on February 23, 2016.

Section 4: Corrective Action Objectives

EPA's Corrective Action Objectives for the specific environmental media at the Parcel are the following:

1. Soils

EPA's Corrective Action Objective is to comply with the cleanup objective standards and procedures developed under Act 2. PADEP compared the sampling results obtained during those investigations to SHSs. These standards are equivalent to EPA's Region III Screening Levels (RSLs) for residential and industrial soil, for individual COCs.

2. Groundwater

No target compounds were detected in the groundwater at the Parcel above their respective MCLs. However, because groundwater contamination beneath the entire 2500-acre Facility will be comprehensively addressed in a separate Statement of Basis, EPA's Corrective Action Objective for Parcel groundwater is to prohibit groundwater use that could adversely affect or interfere with the integrity and protectiveness of remedial activities required by PADEP and/or EPA at the Facility.

Section 5: Proposed Remedy

Introduction

Under this proposed remedy, some contaminants remain in the soil and groundwater above levels appropriate for residential uses (See Attachment 1 for a complete list). EPA's proposed remedy, therefore, requires compliance with and maintenance of soil and groundwater use restrictions. The land and groundwater restrictions proposed by EPA to prevent human exposure to contaminants at the Facility have already been implemented through PADEP's existing environmental covenant recorded in 2008.

1. Soils

The Parcel shall be restricted to commercial and/or industrial purposes and shall not be used for residential purposes. This restriction has been implemented through the PADEP environmental covenant recorded in 2008.

2. Groundwater

For groundwater at the Parcel, EPA is proposing to require the implementation of
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institutional controls with no further remedial actions required at this time. Monitoring at the Facility has shown that groundwater under the Parcel has detected contaminants but below their MCLs and that the contamination originates from other areas within the Facility. EPA's proposed remedy for groundwater at the Parcel consists of the following groundwater use restrictions:

1. Groundwater at the Parcel shall not be used for any purpose other than the operation, maintenance, and monitoring activities currently being required by PADEP and/or EPA.
2. No new wells shall be installed on the Parcel, unless such wells are necessary for the performance or completion of remedial activities required by PADEP and/or EPA.

These restrictions have also been implemented through the PADEP environmental covenant recorded in 2008.

Any further groundwater monitoring and/or remediation at the Parcel will be part of the Sitewide monitoring program which will address Sitewide groundwater contamination associated with the Facility. This program will be implemented by the Facility under PADEP and/or EPA oversight.

3. Enforceability

The components of EPA's proposed remedy have already been implemented and are enforceable by PADEP and EPA under the 2008 environmental covenant. If EPA, in its sole discretion, deems that additional operation and maintenance and monitoring activities and/or institutional controls are necessary to protect human health or the environment, EPA has the authority to require and enforce additional corrective actions.

Section 6: Evaluation of Proposed Remedy

This section provides a description of the criteria EPA used to evaluate the proposed remedy consistent with EPA guidance.

Threshold Criteria	Evaluation
1) Protect human health and the environment	EPA's proposed remedy for the Parcel protects human health and the environment by eliminating, reducing, or controlling potential unacceptable risk through the implementation and maintenance of use restrictions. EPA's proposed remedy restricts land and groundwater use at the Parcel in accordance with actions already taken by PADEP.

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2) Achieve media cleanup objectives	Investigation results at the Parcel demonstrate that soils meet current PADEP SHSs for non-residential use. These standards are equivalent with EPA Region 3 Regional Screening Levels for individual contaminants for non-residential uses. The remedy proposed in this SB would limit use of the property to non-residential uses.
3) Remediating the Source of Releases	In all proposed remedies, EPA seeks to eliminate or reduce further releases of hazardous wastes and hazardous constituents that may pose a threat to human health and the environment. The Parcel has met this objective. The USTs and surrounding soils which were the source of contamination, have been removed from the Parcel, thereby, eliminating, to the extent practicable, further releases of hazardous constituents from on-site soils as well as the source of the groundwater contamination. There are no remaining large, discrete sources of waste from which constituents would be released to the environment. Groundwater is not used for potable purposes at the Parcel or at neighboring facilities. The Parcel and surrounding area are already being provided with potable water from the City's public water supply system. Therefore, EPA has determined that this criterion has been met.

Balancing Criteria	Evaluation
4) Long-term effectiveness	The long term effectiveness of the remedy for the Parcel will be maintained by compliance with use restrictions by the current and all subsequent property owners bound by the controls. This will be confirmed by the annual compliance report that will be submitted to PADEP as required by the covenant.
5) Reduction of toxicity, mobility, or volume of the	Reduction has already been achieved, as demonstrated by the data from the groundwater monitoring and soil sampling results.

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Hazardous Constituents	
6) Short-term effectiveness	EPA's proposed remedy does not involve any activities, such as construction or excavation that would pose short-term risks to workers, residents, and the environment.
7) Implementability	EPA's proposed remedy has already been implemented by PADEP. Both PADEP and EPA can enforce these restrictions, if necessary.
8) Cost	The costs associated with this proposed remedy are minimal (estimated cost of less than \$1000 per year).
9) Community Acceptance	EPA will evaluate community acceptance of the proposed remedy during the public comment period, and it will be described in the Final Decision.
10) State/Support Agency Acceptance	PADEP has reviewed and concurred with the proposed remedy for the Facility.

Section 7: Financial Assurance

EPA has evaluated whether financial assurance for corrective action is necessary to implement EPA's proposed remedy at the Parcel. EPA is proposing that no financial assurance be required.

Section 8: Public Participation

Interested persons are invited to comment on EPA's proposed remedy. The public comment period will last thirty (30) calendar days from the date that notice is published in a local newspaper. Comments may be submitted by mail, fax, or electronic mail to Mr. Leonard Hotham at the contact information listed below.

A public meeting will be held upon request. Requests for a public meeting should be submitted to Mr. Leonard Hotham in writing at the contact information listed below. A meeting will not be scheduled unless one is requested.

The Administrative Record contains all the information considered by EPA for the proposed remedy at this Parcel. The Administrative Record is available at the following location:

U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103
Contact: Mr. Leonard Hotham (3LC20)
Phone: (215) 814-5778
Fax: (215) 814 - 3113
Email: hotham.leonard@epa.gov

Attachments:

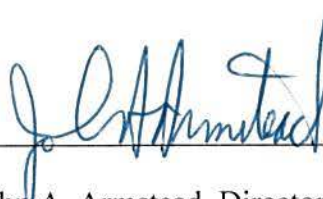
Attachment 1: Contaminants of Concern

Figure 1: Map of Facility

Table 1: Soil Sample Results

Date: _____

6.22.16



John A. Armstead, Director
Land and Chemicals Division
US EPA, Region III

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Section 9: Index to Administrative Record

Act 2 Remedial Investigation Final Report Former U.S. Steel Fairless Works, Fairless Hills, PA, Langan Engineering and Environmental Services, March 31, 2008

Environmental Covenant for Proposed Samax 14.2 Acre Parcel, Fairless Hills, PA, July 6, 2008
Letter to U.S. Steel about the One Cleanup Program Memorandum of Agreement, EPA and PADEP, September 28, 2005

Facility Decommissioning Report and Phase II Environmental Site Assessment, Levine-Fricke-Recon Inc., August 18, 1997

Attachment 1

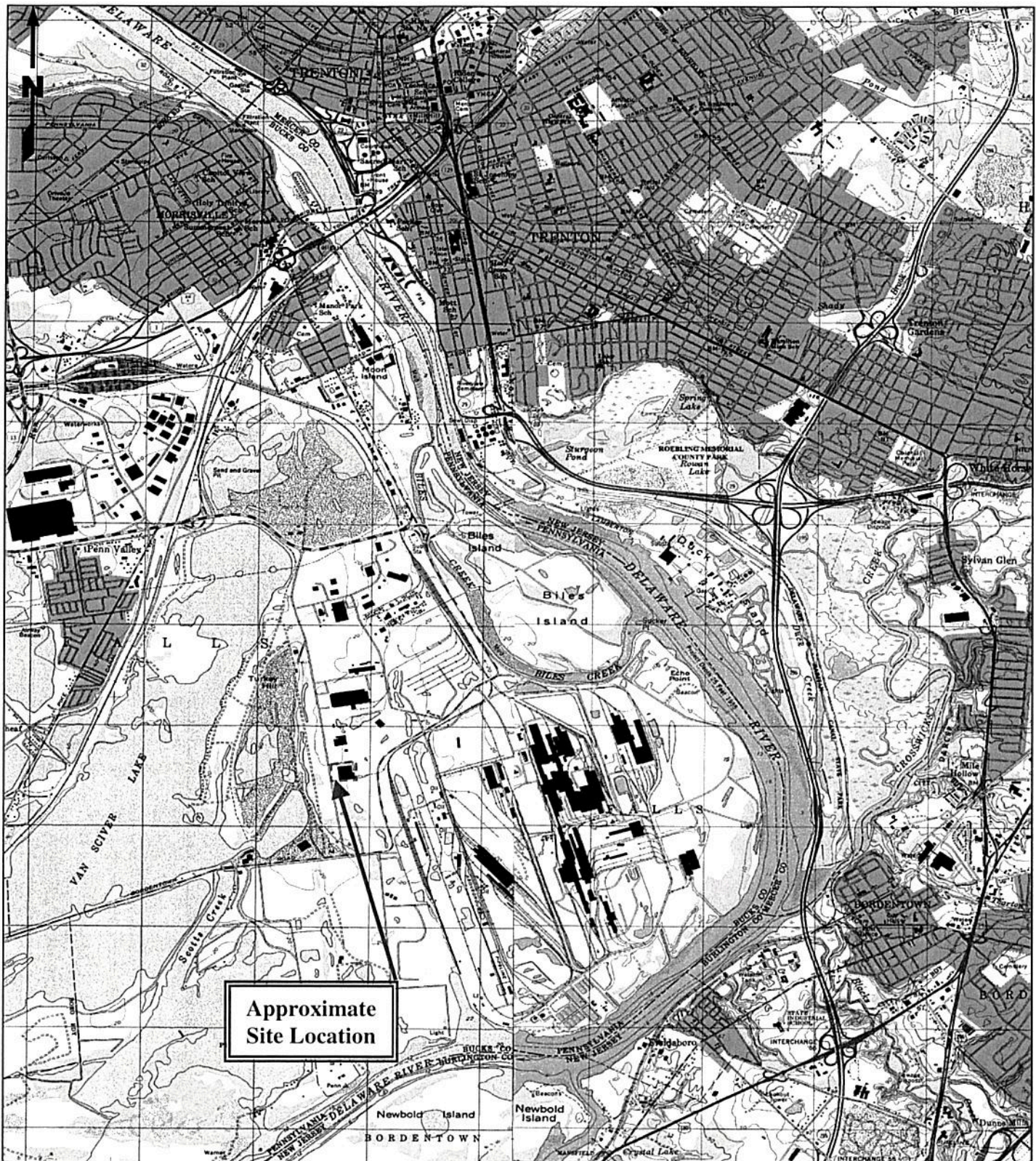
Contaminants of Concern for Residential Use at former National Can Corp.

Benzo (a) pyrene

Dibenzo (a,h)anthracene

Aroclor 1254

Figure 1



Ref. USGS Trenton East and Trenton West, NJ Quadrangles



30 S. 17th Street, Suite 1300 Philadelphia, PA 19103
 P: 215.864.0640 F: 215.864.0671
 www.langan.com

Site Location Plan
 Proposed Samax 14.2-Acre Parcel
 U.S. Steel - Keystone Industrial Port Complex

Fairless Hills

Pennsylvania

Job No. 2644301

Date 11-27-07

1" = 4,000'

Fig. 1

Table 1

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TC1 Volatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC	Location ID		STP-1		STP-1		STP-2		STP-2		STP-3		STP-3		STP-3		STP-4		STP-4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID Sample Date Depth to GW Start Depth (ft) End Depth (ft)	001-STP-1, 1.5-2.0 10/30/07		002-STP-1, 10-10.5 10/30/07		005-STP-2, 1.5-2.0 10/30/07		006-STP-2, 10.5-11.0 10/30/07		008-STP-3, 1.5-2.0 10/30/07		009-DUP-1-10/30/07		010-STP-3, 10.5-11 10/30/07		014-STP-4, 1.5-2.0 10/31/07		015-STP-4, 11.5-12 10/31/07																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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																									2.00	10.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCL Semivolatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC	0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Location ID		STP-1		STP-1		STP-2		STP-2		STP-3		STP-3		STP-3		STP-4		STP-4		
					Sample ID	Sample Date	001-STP-1, 1.5-2.0		002-STP-1, 10-10.5		005-STP-2, 1.5-2.0		006-STP-2, 10.5-11.0		008-STP-3, 1.5-2.0		009-DUP-1-103007		010-STP-3, 10.5-11		014-STP-4, 1.5-2.0		015-STP-4, 11.5-12		
							Depth to GW	End Depth (ft)	NA	10.00	11.00	10.50	11.00	10.50	11.00	1.50	2.00	11.00	10.50	11.00	1.50	2.00	11.00	11.50	12.00
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND	6.9	13	7.9	35	23	ND	7.3	ND	7.8	7.8	7.9	6.1	J	7.5	ND	7.2	ND	7.9		
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	ND	6.9	3.5	J	17	23	ND	36	ND	39	ND	39	6.5	J	7.5	ND	3	J	39		
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	16	ND	7.5	ND	7.2	ND	7.9		
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	2.1	6.9	5.4	J	94	23	ND	7.3	ND	7.8	7.8	7.9	37	ND	3.2	ND	36	ND	39		
Atrazine	1912-24-9	360,000	190,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	39	39		
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	39	7.9		
Benzolanthracene	56-55-3	110,000	190,000,000	ug/kg	13	6.9	21	7.9	410	23	ND	7.3	ND	7.8	7.8	7.9	74	7.5	1.8	J	7.2	ND	7.9		
Benzolapyrene	50-32-8	11,000	190,000,000	ug/kg	15	6.9	23	7.9	650	23	ND	7.3	ND	7.8	7.8	7.9	99	7.5	2.1	J	7.2	ND	7.9		
Benzobifluoranthene	205-99-2	110,000	190,000,000	ug/kg	23	6.9	34	7.9	300	23	ND	7.3	ND	7.8	7.8	7.9	140	7.5	ND	7.2	ND	7.9	7.9		
Benzofluoranthene	191-24-2	170,000,000	190,000,000	ug/kg	12	6.9	12	7.9	190	23	ND	7.3	ND	7.8	7.8	7.9	86	7.5	ND	7.2	ND	7.9	7.9		
Benzokifluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	6.5	J	11	39	190	23	ND	7.3	ND	39	39	39	56	7.5	ND	7.2	ND	ND	39		
1,1'-Bi(phenyl)	92-52-4	140,000,000	190,000,000	ug/kg	3.1	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
bis(2-Chloroethoxy) methane ^a	111-91-1	100,000	100,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND	6.9	ND	7.9	ND	23	ND	7.3	ND	7.8	7.8	7.9	ND	7.5	ND	7.2	ND	7.9	7.9		
2,2'-oxybis(1-Chloropropanol)	108-60-1	160,000	190,000	ug/kg	ND	6.9	ND	7.9	ND	23	ND	7.3	ND	7.8	7.8	7.9	ND	7.5	ND	7.2	ND	ND	39		
bis-(2-Ethylhexyloxy)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.6	34	ND	39	ND	110	J	36	ND	39	ND	39	13	ND	37	5	J	36	ND	39	
4-Bromophenyl-phenylether ^a	101-55-3	100,000	100,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Butylbenzophthalate	85-68-7	10,000,000	10,000,000	ug/kg	7.6	34	9	J	ND	110	ND	36	ND	39	ND	39	ND	37	3.8	J	36	6.2	J	39	
Caprolactam	105-60-2	NS	NS	ug/kg	38	34	56	39	ND	110	37	36	40	39	55	39	34	J	37	10	J	36	13	J	39
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	2.2	J	5.2	J	96	23	ND	7.3	ND	7.8	7.8	7.9	16	7.5	ND	7.2	ND	ND	7.9		
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND	6.9	ND	7.9	ND	23	ND	7.3	ND	7.8	7.8	7.9	ND	7.5	ND	7.2	ND	ND	39		
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
4-Chlorophenyl-phenylether ^a	7005-72-3	100,000	100,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	18	6.9	25	7.9	450	23	ND	7.3	ND	7.8	7.8	7.9	100	7.5	2.4	J	7.2	ND	7.9		
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Dibenz(a,h)anthracene	106-44-5	14,000,000	190,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Dibenzofuran ^a	132-64-9	100,000	100,000	ug/kg	ND	6.9	4	J	68	23	ND	7.3	ND	7.8	7.8	7.9	4.5	J	7.5	ND	7.2	ND	39		
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	2.3	34	5.6	J	21	110	2	36	ND	39	ND	39	2.1	J	37	ND	36	ND	39		
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND	6.9	ND	7.9	ND	23	ND	7.3	ND	7.8	7.8	7.9	ND	7.5	ND	7.2	ND	7.9			
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND	34	4.4	J	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Dimethylphthalate ^a	131-11-3	100,000	100,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	16	34	19	39	ND	17	J	36	17	39	21	39	16	J	37	ND	36	ND	39		
4,6-Dinitro-2-methylphenol ^a	534-52-1	100,000	100,000	ug/kg	ND	180	ND	200	ND	590	ND	180	ND	200	200	200	16	J	190	180	180	ND	200		
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND	180	ND	200	ND	590	ND	180	ND	200	200	200	ND	37	ND	190	180	ND	200		
2,6-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND	34	ND	39	ND	110	ND	36	ND	39	ND	39	ND	37	ND	36	ND	ND	39		
Fluoranthene	606-20-2	2,800,000	190,000,000	ug/kg	37	6.9	21	7.9	1300	23	ND	7.3	2.7	7.8	7.8	7.9	260	7.5	4.4	J	7.2	ND	7.9		
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	2.3	6.9	9.6	7.9	34	23	ND	7.3	ND	7.8	7.8	7.9	6.3	J	7.5	ND	7.2	ND	7.9		
Fluorene	86-73-7	110,000,																							

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

PCB (ug/kg)	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC	Location ID		STP-1		STP-1		STP-2		STP-2		STP-3		STP-3		STP-3		STP-4		STP-4		STP-4							
			Sample ID	Sample Date	Depth to GW	Start Depth (ft)	End Depth (ft)	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL					
Surface Soil	Sub-Surface Soil	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL							
0-2 ft	2-15 ft	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38				
Atoclor 1016	12674-11-2	200,000	10,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1221	11104-28-2	160,000	10,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1232	11141-16-5	160,000	10,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1242	53469-21-9	160,000	10,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1248	12672-29-6	44,000	10,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1254	11097-69-1	44,000	10,000,000	ND		34	ND		38	41		38	ND		36	ND		39	ND		37	ND		36	ND		38			
Atoclor 1260	11096-82-5	130,000	190,000,000	ND		34	ND		38	ND		38	ND		36	ND		39	ND		37	ND		36	ND		38			
PP Metals (mg/kg)			Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL			
Antimony	7440-36-0	1,100	190,000	mg/kg	0.059	B	0.21	0.04	B	0.23	0.021	B	0.23	0.0053	B	0.22	0.23	ND		0.23	0.029	B	0.22	0.022	B	0.22	0.11	0.24		
Arsenic	7440-38-2	53	190,000	mg/kg	8.1		0.1	4.7		0.12	9.8		0.11	2.5		0.12	5		0.12	0.23		0.11	3.4		0.11	3.4		0.12		
Beryllium	7440-41-7	190,000	190,000	mg/kg	1		0.1	0.44		0.12	0.47		0.11	0.21		0.12	0.39		0.12	0.39		0.11	0.3		0.11	0.29		0.12		
Cadmium	7440-43-9	210	190,000	mg/kg	0.12		0.1	0.099	B	0.12	0.071	B	0.12	0.052	B	0.11	0.065	B	0.12	0.055	B	0.12	0.09	B	0.11	0.072	B	0.12		
Chromium	7440-47-3	190,000	190,000	mg/kg	31.3	J	0.21	9.9	J	0.23	16.9	J	0.23	5.5	J	0.22	11.4	J	0.23	11.2	J	0.22	6.2	J	0.22	6.1	J	0.24		
Copper	7440-50-8	100,000	190,000	mg/kg	27.2	J	0.21	12.6	J	0.23	12.5	J	0.23	6.8	J	0.22	10.8	J	0.23	11.6	J	0.22	9.3	J	0.22	9.3	J	0.24		
Lead	7439-92-1	1,000	190,000	mg/kg	12.9		0.1	10.4		0.12	23.6		0.11	3.6		0.12	9.4		0.12	9.6		0.12	9.4		0.11	10		6.7		
Mercury	7439-97-6	840	190,000	mg/kg	ND		0.034	12.8		0.12	9.5		0.11	7.1		0.12	12.9		0.12	12.8		0.12	7.9		0.11	7.6		0.12		
Nickel	7440-02-0	56,000	190,000	mg/kg	20.7	J	0.1	0.56	B J	0.12	0.74	J	0.57	0.32	B J	0.12	0.54	0.5	B J	0.58	0.54	B J	0.59	0.41	B J	0.56	0.35	B	0.59	
Selenium	7782-49-2	14,000	190,000	mg/kg	0.68		0.1	ND		0.12	ND		0.11	ND		0.12	ND		0.12	ND		0.12	0.0049	B	0.11	ND		0.12		
Silver	7440-22-4	14,000	190,000	mg/kg	0.031	B	0.1	ND		0.12	ND		0.11	ND		0.12	0.084	B J	0.12	0.084	B J	0.12	0.027	B J	0.11	0.054	B	0.12		
Thallium	7440-28-0	200	190,000	mg/kg	0.47	J	0.1	0.11	B J	0.12	0.1	B J	0.11	0.027	B J	0.11	0.084	B J	0.12	0.084	B J	0.12	0.027	B J	0.11	0.054	B	0.12		
Zinc	7440-66-6	190,000	190,000	mg/kg	53.3	J	0.52	31.8	J	0.59	36.9	J	0.57	19.8	J	0.54	28.4	J	0.58	28.8	J	0.59	27	J	0.56	20.6	J	0.55	24.7	
General Chemistry			Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids			percent	96.9			85.2			87			92.1			85.6			85.3			89.5			92.9			85.1		

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-5		STP-5		STP-6		STP-6		STP-7		STP-7		STP-8		STP-8	
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID	Sample Date	STP-5 017-STP-5, 1.5-2.0 10/31/07	RL	STP-5 018-STP-5, 10.5-11 10/31/07	RL	STP-6 019-STP-6, 1.5-2.0 10/31/07	RL	STP-6 020-STP-6, 7.5-8 10/31/07	RL	STP-7 021-STP-7, 1.5-2.0 10/31/07	RL	STP-7 022-STP-7, 3.5-4.0 10/31/07	RL	STP-8 023-STP-8, 1.5-2.0 10/31/07	RL	STP-8 024-STP-8, 4.5-5.0 10/31/07	RL
TCL Volatiles				Units		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		21	ND		20	ND	24	9.5	ND	22	ND	21	ND		24	ND
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dibromomethane	106-93-4	930	8,600	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dibromomethane	96-12-8	11,000	12,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dibromo-3-chloropropane	124-48-1	61,000	70,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
trans-1,2-Dichloroethane	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
cis-1,2-Dichloroethane	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
trans-1,3-Dichloropropene ¹	10061-02-6	410,000	470,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
cis-1,3-Dichloropropene ¹	10061-01-5	410,000	470,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	2.3	J B	5.2	1	J	5.1	1.9	2.2	J	5.5	1.4	J	5.3	1.9	J	5.9	4
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		16	ND		15	ND	18	ND	16	ND	16	ND	18		18	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.2	ND		5.1	ND	5.9	ND	5.5	ND	5.3	ND	5.9		5.9	ND

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

IOL Semivolatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-5		STP-5		STP-6		STP-6		STP-7		STP-7		STP-8		STP-8								
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Units	Sample ID Sample Date Depth to GW Start Depth (ft) End Depth (ft)	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL								
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND	ND	7.2	ND	ND	7.7	ND	ND	7.1	3.6	J	8	ND	ND	7.2	ND	7.4	ND	2	J	7.1	5.1	J	10
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	4.2	J	7.2	ND	ND	7.7	ND	ND	7.1	20	J	8	ND	ND	7.2	ND	7.4	2	J	7.1	26	ND	10	
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	3	J	35	2.7	J	38	ND	ND	35	2.8	J	39	ND	ND	35	ND	37	ND	3.6	J	7.1	29	ND	51
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	3.8	J	7.2	ND	ND	7.7	ND	ND	7.1	17	ND	8	ND	ND	7.2	ND	7.4	3.6	J	7.1	29	ND	51	
Atrazine	1912-24-9	360,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	36	ND	51	
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Benzobiphenylene	56-55-3	110,000	190,000,000	ug/kg	15	ND	7.2	ND	ND	7.7	ND	ND	7.1	44	ND	8	1.5	ND	7.2	3.1	7.4	19	7.1	63	7.1	60	10	
Benzobiphenylene	50-32-8	11,000	190,000,000	ug/kg	16	7.1	7.2	ND	ND	7.7	7.1	51	7.1	51	J	8	1.6	ND	7.2	3.2	7.4	21	7.1	76	7.1	10		
Benzobiphenylene	205-99-2	110,000	190,000,000	ug/kg	21	7.2	7.2	ND	ND	7.7	7.1	58	7.1	58	ND	8	ND	ND	7.2	4.3	7.4	30	7.1	45	7.1	10		
Benzofluoranthene	191-24-2	170,000,000	190,000,000	ug/kg	12	7.2	7.2	ND	ND	7.7	7.1	42	7.1	42	ND	8	ND	ND	7.2	2	7.4	18	7.1	31	7.1	10		
Benzofluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	7.3	7.2	7.2	ND	ND	7.7	7.1	20	7.1	20	ND	8	ND	ND	7.2	1.2	7.4	12	7.1	31	7.1	10		
1,1'-Bi(phenyl)	92-52-4	140,000,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	4.9	J	51
Bis(2-Chloroethoxy) methane ²	111-91-1	100,000	100,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	4.9	J	51
Bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND	ND	7.2	ND	ND	7.7	7.1	ND	7.1	ND	ND	8	ND	ND	7.2	ND	7.4	ND	ND	7.1	ND	7.1	10	
Bis(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.1	J	35	5.6	J	38	ND	4.2	J	5.6	J	39	5	ND	35	5.3	3.7	3.2	5.4	J	35	ND	51	
4-Bromophenyl-phenylether ²	101-55-3	100,000	100,000	ug/kg	ND	ND	35	ND	ND	38	ND	4.3	J	3.8	J	39	3.5	ND	35	3.7	3.7	3.2	3.2	J	35	ND	51	
Burylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	5.9	J	35	5.5	J	38	ND	9.5	J	10	J	39	7.3	ND	35	ND	37	ND	ND	3.2	3.5	ND	51	
Caprolactam	105-60-2	NS	NS	ug/kg	9.5	J	35	13	J	38	ND	9.5	J	35	10	J	39	7.3	ND	35	37	ND	ND	3.2	3.5	ND	51	
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	ND	ND	7.2	ND	ND	7.7	ND	ND	7.1	4.3	J	8	ND	ND	7.2	ND	7.4	2.9	J	7.1	7.5	J	10	
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
2-Chloronaphthalene	91-56-7	190,000,000	190,000,000	ug/kg	ND	ND	7.2	ND	ND	7.7	7.1	ND	7.1	ND	ND	8	ND	ND	7.2	ND	7.4	ND	ND	7.1	ND	7.1	10	
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
4-Chlorophenyl-phenylether ²	7005-72-3	100,000	100,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	19	7.2	7.2	ND	ND	7.7	7.1	64	7.1	64	J	8	1.6	ND	7.2	3.1	7.4	23	7.1	77	7.1	10		
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Dibenzofuran ²	53-70-3	11,000	190,000,000	ug/kg	ND	ND	7.2	ND	ND	7.7	7.1	8.9	7.1	8.9	J	8	ND	ND	7.2	ND	7.4	3.6	J	7.1	13	7.1	10	
Dibenzofuran ²	132-64-9	100,000	100,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	2.3	J	39	ND	ND	35	ND	37	ND	ND	ND	35	8.2	J	51
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND	ND	7.2	ND	ND	7.7	7.1	ND	7.1	ND	ND	8	ND	ND	7.2	ND	7.4	ND	ND	7.1	ND	7.1	10	
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Dimethylphthalate ²	131-11-3	100,000	100,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
4,6-Dinitro-2-methylphenol ^{2,2}	534-52-1	100,000	100,000	ug/kg	ND	ND	180	ND	ND	200	ND	ND	180	ND	ND	200	ND	ND	180	ND	190	ND	ND	ND	180	ND	260	
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND	ND	180	ND	ND	200	ND	ND	180	ND	ND	200	ND	ND	180	ND	190	ND	ND	ND	180	ND	260	
2,6-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	
Fluoranthene	606-20-2	2,800,000	190,000,000	ug/kg	ND	ND	35	ND	ND	38	ND	ND	35	ND	ND	39	ND	ND	35	ND	37	ND	ND	ND	35	ND	51	

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-5		STP-5		STP-6		STP-6		STP-7		STP-7		STP-8		STP-8								
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID	Sample Date	Depth to GW	Start Depth (ft)	End Depth (ft)	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL					
Units	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL								
PCB (ug/kg)																												
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND								
PP Metals (mg/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL						
Antimony	7440-36-0	1,100	190,000	mg/kg	0.064	B	0.21	0.013	B	0.23	0.023	B	0.21	0.01	B	0.24	0.0067	B	0.21	0.011	B	0.22	0.022	B	0.21	0.49	0.31	
Arsenic	7440-38-2	53	190,000	mg/kg	3.6	J	0.11	4.6	J	0.12	2.9	J	0.11	4.3	J	0.12	2.8	J	0.11	2.9	J	0.11	2.9	J	0.11	5.2	0.15	
Beryllium	7440-41-7	190,000	190,000	mg/kg	0.43		0.11	0.44		0.12	0.26		0.11	0.55		0.12	0.32		0.11	0.33		0.11	0.34		0.11	1.8	0.15	
Cadmium	7440-43-9	210	190,000	mg/kg	0.15		0.11	0.095	B	0.12	0.083	B	0.11	0.079	B	0.12	0.088	B	0.11	0.089	B	0.11	0.11	0.11	0.11	7.3	0.15	
Chromium ***	7440-47-3	190,000	190,000	mg/kg	12.2	J	0.21	11.4	J	0.23	7.9	J	0.21	10.1	J	0.24	7.9	J	0.21	8.4	J	0.22	9	J	0.21	64.6	0.31	
Copper	7440-50-8	100,000	190,000	mg/kg	14.5		0.21	9.9		0.23	8.4		0.21	11.8		0.24	9.6		0.21	9.2		0.22	10.1		0.21	122	0.31	
Lead	7439-92-1	1,000	190,000	mg/kg	7.8		0.11	8.6		0.12	5.1		0.11	10.8		0.12	5.3		0.11	7.9		0.11	8.7		0.11	176	0.15	
Mercury	7439-97-6	840	190,000	mg/kg	0.029	B	0.035	0.024	B	0.038	0.011	B	0.035	0.028	B	0.039	0.013	B	0.035	0.013	B	0.037	0.023	B	0.035	0.73	0.051	
Nickel	7440-02-0	56,000	190,000	mg/kg	10.7	J	0.11	12.4	J	0.12	9.3	J	0.11	12.8	J	0.12	10.5	J	0.11	9.7	J	0.11	10.5	J	0.11	40.6	0.15	
Selenium	7782-49-2	14,000	190,000	mg/kg	0.43	B	0.54	0.5	B	0.58	0.28	B	0.53	0.59	B	0.53	0.33	B	0.53	0.39	B	0.55	0.43	0.37	B	0.54	2	0.77
Silver	7440-22-4	14,000	190,000	mg/kg	0.032	B	0.11	ND		0.12	ND		0.11	0.0034	B	0.12	ND		0.11	ND		0.11	0.054	B	0.11	1.2	0.15	
Thallium	7440-28-0	200	190,000	mg/kg	0.052	B	0.11	0.07	B	0.12	0.029	B	0.11	0.086	B	0.12	0.044	B	0.11	0.046	B	0.11	0.054	B	0.11	0.24	0.15	
Zinc	7440-66-6	190,000	190,000	mg/kg	34	J	0.54	30.2	J	0.58	23.4	J	0.53	31.2	J	0.59	24.8	J	0.53	24.1	J	0.55	29.2	J	0.54	1270	0.77	
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	93.5			86.7			94.7			84.2			93.5			90.2			93.3			65		

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCE Volatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-9		STP-9		STP-10		STP-10		STP-10		STP-11		STP-11	
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID Sample Date Depth to GW Start Depth (ft) End Depth (ft)	Units	025-STP-9, 1.5-2.0		026-STP-9, 5.5-6.0		028-STP-10, 1.5-2.0*		029-DUP-2, 11/01/07		030-STP-10, 12.5-13*		032-STP-11, 1.5-2.0*		033-STP-11, 7.5-8.0*	
						Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
																		RL	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		21	15	J	25	ND		21	34		23	ND	22	21
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Bromofom	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	7.8		5.9	ND	5.5	4.4
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	1.3
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
trans-1,2-Dichloroethane	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
cis-1,2-Dichloroethane	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2-Dichloropropene	78-87-5	160,000	180,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
trans-1,3-Dichloropropene	10061-02-6	410,000	470,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
cis-1,3-Dichloropropene	10061-01-5	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	0.94	J	5.3	2.2	J	6.2	ND		5.3	ND		5.9	ND	5.5	ND
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		16	ND		18	ND		16	ND		18	ND	17	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Trichloroethane	79-01-6	970,000	1,100,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.3	ND		6.2	ND		5.3	ND		5.9	ND	5.5	ND

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCL Semivolatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-9		STP-9		STP-10		STP-10		STP-10		STP-10		STP-11		STP-11				
		0-2 ft	2-15 ft	Sample Date	Start Depth (ft)	End Depth (ft)	02s-STP-9, 1.5-2.0		02s-STP-9, 5.5-6.0		02s-DUP-2, 11/01/07		02s-DUP-2, 11/01/07		030s-STP-10, 12.5-13'		032-STP-11, 1.5-2.0'		033-STP-11, 7.5-8.0'					
							Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	1.8	J	7.1	ND	7.7	ND	2.8	J	7.4	8.5	7.4	ND	7.7	ND	15	ND				
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	5.4	J	7.1	ND	7.7	ND	7.7	ND	36	ND	37	ND	38	ND	15	ND				
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	3.1	J	35	3.3	38	ND	ND	ND	36	6.4	J	7.4	ND	7.7	ND	15	ND			
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	6.3	J	7.1	ND	7.7	ND	7.7	ND	7.4	ND	37	ND	38	ND	72	ND				
Atrazine ²	1912-24-9	360,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Benzofluoranthene	56-55-3	110,000	190,000,000	ug/kg	18		7.1	6.3	7.7	5.9	J	7.4	19	7.4	7.4	3.1	7.7	11	15	ND				
Benzolaprene	50-32-8	11,000	190,000,000	ug/kg	18		7.1	7.2	7.7	6.2	J	7.4	18	18	7.4	3.1	7.7	19	15	ND				
Benzobifluoranthene	205-99-2	110,000	190,000,000	ug/kg	26		7.1	9.3	7.7	7.6	J	7.4	28	28	7.4	ND	7.7	23	15	ND				
Benzofluoranthene	191-24-2	170,000,000	190,000,000	ug/kg	16		7.1	5.9	7.7	5.8	J	7.4	17	17	7.4	2.7	7.7	16	15	ND				
Benzokifluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	6	J	7.1	3.7	7.7	3.5	J	7.4	7.2	7.2	7.4	ND	7.7	8.5	15	ND				
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	1.9	J	35	ND	38	ND	ND	ND	36	13	J	37	ND	ND	72	ND				
bis(2-Chloroethoxy) methane ³	111-91-1	100,000	100,000	ug/kg	111-91-1		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
bis(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	8.6	J	35	6.3	38	ND	ND	ND	36	8.3	J	37	11	38	33	J				
4-Bromophenyl-phenylether ³	101-55-3	100,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	ND		35	ND	38	3.3	J	37	6.1	J	37	11	J	38	ND	72	9			
Caprolactam	105-60-2	NS	NS	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	9.2	J	35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	1.9	J	7.1	ND	7.7	ND	ND	ND	7.4	3	J	7.4	ND	7.7	ND	15	ND			
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	7.4	ND	7.7	ND	7.7	ND	15	ND				
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
4-Chlorophenyl-phenylether ⁴	7005-72-3	100,000	100,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	21		7.1	7.6	J	10	J	7.7	10	35	7.7	ND	38	ND	72	ND				
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Dibenzol, hlantracene	53-70-3	11,000	190,000,000	ug/kg	3.7	J	7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
Dibenzofuran ⁵	132-64-9	100,000	100,000	ug/kg	2.8	J	35	ND	38	2.9	J	36	19	J	37	ND	38	ND	72	ND				
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Dimethylphthalate ⁶	131-11-3	100,000	100,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	9.1	J	37	7.9	38	ND	72	8.3			
4,6-Dinitro-2-methylphenol ^{7,8}	534-52-1	100,000	100,000	ug/kg	ND		180	ND	200	ND	ND	ND	190	ND	190	ND	200	ND	370	ND				
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		180	ND	200	ND	ND	ND	190	ND	190	ND	200	ND	370	ND				
2,4-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Fluorene	206-44-0	110,000,000	190,000,000	ug/kg	31		7.1	14	7.7	8.9	32	7.4	32	7.4	4.6	J	7.7	26	15	2.9				
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	3.2	J	7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	7.4	ND	7.4	ND	7.7	ND	15	ND				
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		7.1	ND	7.7	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
Indeno[1,2,3-cd]pyrene	193-39-5	110,000	190,000,000	ug/kg	13		7.1	4.6	J	7.7	4.6	J	7.4	14	7.4	ND	7.7	11	J	72	ND			
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		35	ND	38	ND	ND	ND	36	ND	37	ND	38	ND	72	ND				
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	3.9	J	7.1	ND	7.7	7.7	6	J	7.4	64	7.4	ND	7.7	ND	15	22				
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	7.3		7.1	ND	7.7	7.7	6	J	7.4	34	7.4	5	J	7.7	ND	15	230			
2-Nitroaniline ⁹	88-74-4	160,000	190,000,000	ug/kg	ND		180	ND	200	ND	ND	ND	190	ND	190	ND	200	ND	370	ND				
3-Nitroaniline ⁹	99-09-2	160,000	190,000,000	ug/kg	ND		180	ND	200	ND	ND	ND	190	ND	190	ND	200	ND	370	ND				
4-Nitroaniline ⁹	100-01-6	160,000	190,000,00																					

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-9		STP-9		STP-10		STP-10		STP-10		STP-10		STP-11		STP-11				
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID	025-STP-9, 1.5-2.0'	Result	Q	RL	Sample ID	026-STP-9, 5.5-6.0'	Result	Q	RL	Sample ID	028-STP-10, 1.5-2.0'	Result	Q	RL	Sample ID	029-DUP-2, 110/107	Result	Q	RL	
				Sample Date	10/31/07				Sample Date	08/31/07				Sample Date	11/01/07				Sample Date	11/01/07				
				Depth to GW	6.00				Depth to GW	13.00				Depth to GW	13.00				Depth to GW	13.00				
				Start Depth (ft)	1.50				Start Depth (ft)	7.50				Start Depth (ft)	1.50				Start Depth (ft)	1.50				Start Depth (ft)
End Depth (ft)	2.00	End Depth (ft)	8.00	End Depth (ft)	2.00	End Depth (ft)	2.00	End Depth (ft)	2.00	End Depth (ft)	2.00	End Depth (ft)	2.00											
PCB (ug/kg)		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Atroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND				35		ND				36		ND			38		ND		
Atroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
Atroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
Atroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
Atroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
Atroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
Atroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND				35		ND				36		ND			37		ND		
PP Metals (mg/kg)		Units	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL</td></td></td>	RL <td>Result</td> <td>Q<td>RL</td></td>	Result	Q <td>RL</td>	RL	
Antimony	7440-36-0	1,100	190,000	mg/kg	0.028	B	0.21	0.021	B	0.23	0.047	B	0.22	0.035	B	0.22	0.014	B	0.23	0.078	B	0.22	0.011	B
Arsenic	7440-38-2	53	190,000	mg/kg	2.9	J	0.11	4.6	J	0.12	3		0.11	3.5		0.11	6.4		0.11	4.7		0.11	4.3	
Beryllium	7440-41-7	190,000	190,000	mg/kg	0.36		0.11	0.51		0.12	0.35		0.11	0.43		0.11	0.56		0.11	0.34		0.11	0.48	
Cadmium	7440-43-9	210	190,000	mg/kg	0.1	B	0.11	0.097	B	0.12	0.13		0.11	0.29		0.11	0.13		0.11	0.14		0.11	0.14	
Chromium	7440-47-3	190,000	190,000	mg/kg	8.3	J	0.21	11.1	J	0.23	24.9		0.22	465		0.22	10.9		0.23	8.3		0.22	10	
Copper	7440-50-8	100,000	190,000	mg/kg	11.1		0.21	12.4		0.23	12.4	J	0.22	13.8	J	0.22	12.5		0.23	12.2	J	0.22	12.7	J
Lead	7439-92-1	1,000	190,000	mg/kg	6.9		0.11	11.4		0.12	9.5		0.11	15.9		0.11	13.6		0.11	9.4		0.11	11.8	
Mercury	7439-97-6	840	190,000	mg/kg	0.021	B	0.035	0.032	B	0.038	0.033	B	0.036	0.041		0.037	0.23		0.038	0.031	B	0.036	0.018	B
Nickel	7440-02-0	56,000	190,000	mg/kg	10.1	J	0.11	13.7	J	0.12	12.2		0.11	10.2		0.11	13.5		0.11	11.3		0.11	14.4	
Selenium	7782-49-2	14,000	190,000	mg/kg	0.34	B	0.53	0.56		0.58	0.19	B	0.55	0.3	B	0.56	0.53		0.57	0.21	B	0.55	0.45	B
Silver	7440-22-4	14,000	190,000	mg/kg	0.11	ND	0.11	ND		0.12	0.015	B	0.11	0.033	B	0.11	0.024	B	0.11	0.015	B	0.11	0.023	B
Thallium	7440-28-0	200	190,000	mg/kg	0.05	B	0.11	0.082	B	0.12	0.052	B	0.11	0.061	B	0.11	0.11		0.11	0.05	B	0.11	0.089	B
Zinc	7440-66-6	190,000	190,000	mg/kg	28.3	J	0.53	34.4	J	0.58	41.8	J	0.55	59.9	J	0.55	38	J	0.57	34.8	J	0.55	36.8	J
General Chemistry		Units	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td></td>	RL <td>Result</td> <td>Q<td>RL<td>Result</td><td>Q<td>RL</td></td></td></td>	Result	Q <td>RL<td>Result</td><td>Q<td>RL</td></td></td>	RL <td>Result</td> <td>Q<td>RL</td></td>	Result	Q <td>RL</td>	RL	
Percent Solids	none	NS	NS	percent	94.9			86.8		90.7			90.2			87			91.7			83.5		

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCL Volatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-12		STP-12		STP-13		STP-13		STP-14		STP-14		STP-15		STP-15				
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID Sample Date Depth to GW Start Depth (ft) End Depth (ft)	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL				
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		22	3000	J B	5600	ND	ND	20	ND	25	ND	ND	7.8	J	21	ND	24	ND	
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Bromofom	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.5	21000		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2-Dibromomethane	106-93-4	930	8,600	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2-Dibromo-3-chloropropene	96-12-8	11,000	12,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
cis-1,2-Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,1-Dichloroethane	75-35-4	33,000	38,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2-Dichloropropene	78-87-5	160,000	180,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
trans-1,3-Dichloropropene ¹	10061-02-6	410,000	470,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
cis-1,3-Dichloropropene ¹	10061-01-5	410,000	470,000	ug/kg	ND		5.5	760	J	1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.5	430	J	1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	0.87	J	5.5	ND		1400	2.5	5.1	1.8	6.2	1.3	J	5	1	J	5.4	ND	6	ND	5.9
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,1,2,2-tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		16	3500	J	4200	ND	15	ND	19	ND	15	ND	16	ND		18	ND	18	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Trichloroethane	79-01-6	970,000	1,100,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.5	ND		1400	ND	5.1	ND	6.2	ND	5	ND	5.4	ND		6	ND	5.9	

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCL Semivolatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-12		STP-12		STP-13		STP-13		STP-14		STP-14		STP-15		STP-15	
		Surface Soil	Sub-Surface Soil	Sample ID Sample Date	Depth to GW Start Depth (ft)	034-STP-12, 1.5-2.0'		035-STP-12, 7.5-8.0'		003-STP-13, 1.5-2.0		004-STP-13, 9.5-10		012-STP-14, 1.5-2.0		013-STP-14, 11.5-12		026-STP-15, 1.5-2.0'		027-STP-15, 8.5-9.0'	
						Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL		
																				Units	End Depth (ft)
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	81	7.4	55	7.2	7.2	7.2	7.2	ND	7.8	ND	7.4
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	2.3	J	7.4	ND	ND	1500	91	7.4	7.1	J	7.2	ND	35	ND	7.5	ND	7.4
Acetaphenone	98-86-2	10,000,000	10,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	37	ND	36	ND	37	ND	39	ND
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	280	7.4	94	7.2	ND	7.2	ND	7.5	ND	7.8	ND
Atrazine	1912-24-9	360,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	35	ND	37	ND	39	ND
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	35	ND	37	ND	39	ND
Benzofluoranthene	56-55-3	110,000	190,000,000	ug/kg	6.6	J	7.4	ND	ND	1500	1800	7.4	360	7.2	2.8	J	7.5	ND	7.8	ND	7.4
Benzofluoranthene	50-32-8	11,000	190,000,000	ug/kg	10	7.4	7.4	ND	ND	1500	1900	7.4	270	7.2	3.1	J	7.5	ND	7.8	ND	7.4
Benzofluoranthene	205-99-2	110,000	190,000,000	ug/kg	11	7.4	7.4	ND	ND	1500	2600	7.4	370	7.2	4.5	J	7.5	ND	7.8	ND	7.4
Benzofluoranthene	191-24-2	170,000,000	190,000,000	ug/kg	9.7	7.4	7.4	ND	ND	1500	1400	7.4	150	7.2	1.8	J	7.5	ND	7.8	ND	7.4
Benzofluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	6.5	J	7.4	ND	ND	1500	1000	7.4	140	7.2	1.5	J	7.5	ND	7.8	ND	7.4
1,1'-Bi-phenyl	92-52-4	140,000,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	7.8	J	35	ND	37	ND	39	ND	36
bis(2-Chloroethoxy) methane	111-91-1	100,000	100,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	35	ND	37	ND	39	ND
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	74	ND	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	360	110	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
bis(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.9	J	36	ND	ND	7400	ND	360	ND	35	15	J	37	ND	39	ND	36
4-Bromophenyl-phenylether	101-55-3	100,000	100,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	7.1	J	36	ND	ND	7400	ND	360	5.6	J	35	ND	37	3.6	J	39	ND
Caprolactam	105-60-2	NS	NS	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	7.9	J	39	ND	36
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	300	7.4	68	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	74	ND	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
4-Chlorophenyl-phenylether	7005-72-3	100,000	100,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	12	7.4	7.4	ND	ND	1500	2100	7.4	400	7.2	3.3	J	7.5	ND	7.8	ND	7.4
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Dibenzofluoranthene	53-70-3	11,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	330	7.4	41	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
Dibenzofuran	132-64-9	100,000	100,000	ug/kg	ND	36	36	ND	ND	7400	45	360	40	35	ND	35	37	ND	39	ND	36
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	74	ND	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Dimethylphthalate	131-11-3	100,000	100,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	8.3	J	36	ND	ND	7400	ND	360	18	J	35	16	J	37	ND	39	10
4,6-Dinitro-2-methylphenol	534-52-1	100,000	100,000	ug/kg	ND	190	190	ND	ND	38000	ND	1900	ND	180	ND	180	190	ND	200	ND	190
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND	190	190	ND	ND	38000	ND	1900	ND	180	ND	180	190	ND	200	ND	190
2,4-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	22	7.4	7.4	ND	ND	1500	5100	7.4	710	7.2	6.9	J	7.5	ND	7.8	ND	7.4
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	81	7.4	75	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	74	ND	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND	7.4	7.4	ND	ND	1500	ND	74	ND	7.2	ND	7.2	7.5	ND	7.8	ND	7.4
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND	37	ND	35	39	ND	36
Hexachlorocyclopentadiene	67-72-1	2,800,000	190,000,000	ug/kg	ND	36	36	ND	ND	7400	ND	360	ND	35	ND						

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		STP-12		STP-12		STP-13		STP-13		STP-14		STP-14		STP-15		STP-15	
		0.2 ft Surface Soil	2-15 ft Sub-Surface Soil	Sample ID	034-STP-12, 1.5-2.0'	11/01/07	035-STP-12, 7.5-8.0'	11/01/07	003-STP-13, 1.5-2.0	10/30/07	004-STP-13, 9.5-10	10/30/07	012-STP-14, 1.5-2.0	10/31/07	013-STP-14, 11.5-12	10/31/07	036-STP-15, 8.5-9.0'	11/01/07	037-STP-15, 8.5-9.0'	11/01/07	
				Depth to GW	8.00	8.00	10.00	10.00	10.00	12.00	9.00	8.50									
				Start Depth (ft)	1.50	7.50	1.50	9.50	1.50	1.50	1.50	1.50									
				End Depth (ft)	2.00	8.00	2.00	10.00	2.00	2.00	2.00	2.00									
PCB (ug/kg)		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Atoclor 1016	12674-11-2	200,000	ND		36	110		37	ND		36	ND		36	ND		37	ND		39	ND
Atoclor 1221	11104-28-2	160,000	ND		36	ND		37	ND		36	ND		36	ND		37	ND		39	ND
Atoclor 1232	11141-16-5	160,000	ND		36	ND		37	ND		36	ND		36	ND		37	ND		39	ND
Atoclor 1242	53469-21-9	160,000	ND		36	ND		37	ND		36	ND		36	ND		37	ND		39	ND
Atoclor 1248	12672-29-6	44,000	ND		36	ND		37	ND		36	ND		36	ND		37	ND		39	ND
Atoclor 1254	11097-69-1	44,000	ND		36	1100		37	130		36	35		36	1700		37	ND		39	ND
Atoclor 1260	11096-82-5	130,000	ND		36	ND		37	ND		36	ND		36	ND		37	ND		39	ND
PP Metals (mg/kg)		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Antimony	7440-36-0	1,100	0.021	B	0.22	0.037	B	0.23	0.021	B	0.22	0.056	B	0.22	0.059	B	0.22	0.059	B	0.23	0.012
Arsenic	7440-38-2	53	3.8	B	0.11	1.7		0.11	7		0.11	5.6		0.11	4.4		0.11	3.3		1.9	
Beryllium	7440-41-7	190,000	0.38		0.11	0.25		0.11	0.48		0.11	1.4		0.11	0.38		0.11	0.41		0.12	
Cadmium	7440-43-9	210	0.12		0.11	0.097	B	0.11	0.19		0.11	0.13		0.11	0.089	B	0.11	0.094	B	0.11	
Chromium "	7440-47-3	190,000	10.8		0.22	12.6		0.23	11.7	J	0.22	34.5		0.22	8.9		0.22	8.3	J	0.22	
Copper	7440-50-8	100,000	13	J	0.22	8.8	J	0.23	15.3	J	0.22	27.3	J	0.22	11		0.22	10.5		0.23	
Lead	7439-92-1	1,000	9.6		0.11	4.2		0.11	15.2		0.11	15.6		0.11	8.4		0.11	7.4		0.12	
Mercury	7439-97-6	840	0.019	B	0.036	0.01	B	0.037	0.035	B	0.036	0.0083	B	0.036	0.03		0.037	0.0982	B	0.039	
Nickel	7440-02-0	56,000	13.6		0.11	7.9		0.11	12.2		0.11	22.4		0.11	12.3	J	0.11	11.1	J	0.11	
Selenium	7782-49-2	14,000	0.24	B	0.55	0.19	B	0.56	0.68	J	0.55	0.79	J	0.54	0.47		0.56	0.38	B	0.59	
Silver	7440-22-4	190,000	0.015	B	0.11	0.011	B	0.11	0.0073	B	0.11	0.029	B	0.11	ND		0.11	ND		0.12	
Thallium	7440-28-0	190,000	0.066	B	0.11	0.031	B	0.11	0.086	B	0.11	0.47	J	0.11	0.078	B	0.11	0.07	B	0.11	
Zinc	7440-66-6	190,000	33.4	J	0.55	26.9	J	0.56	38.6	J	0.55	53.1	J	0.54	28.8	J	0.56	27.1	J	0.59	
General Chemistry		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Percent Solids	none	NS	90.5	-	-	88.6	-	-	90.7		92.2			92.1		85.4		91			

Laboratory Qualifiers:

Organic Qualifiers:

B = Analyte was detected in the method blank.

J = Estimated Result. Result is less than RL.

Inorganic Qualifiers:

J = Estimated Result. Result is less than RL.

B = Analyte was detected in the method blank.

Notes:

PADEP = Pennsylvania Department of Environmental Protection

MSC = PADEP's Medium Specific Concentration for surface and subsurface soil.

RL = Reporting Limit.

NS = No Act 2 Remediation Standard.

Q = Laboratory Qualifier

ND = Not Detected at concentrations above the laboratory reporting limit.

ug/kg = microgram per kilogram.

mg/kg = milligram per kilogram.

1. MSC listed for cis-1,3-Dichloropropene aNDrans-1,3-Dichloropropene is based on the MSC for 1,3-Dichloropropene (Total).
2. Chromium III was used as the most stringent chromium standard.

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statwide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEF Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		016-FB-2-103107		007-FB-1-103007		031-FB-3-110107		011-TB-1-103107		027-TB-2-103007		038-TB-3-110107	
		Sample ID		C7K010229-005		C7K010229-005		C7J310198-007		C7K020245-004		C7J310198-011		C7K010229-016		C7K020245-011	
		Sample Date		10/31/07		10/31/07		10/30/07		10/30/07		10/31/07		10/30/07		10/30/07	
		Depth to GW		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
		0-2 ft	2-15 ft	Start Depth (ft)	End Depth (ft)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
TCF Volatiles		Surface Soil	Sub-Surface	Units		RL		RL		RL		RL		RL		RL	
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND	5	ND	3.2	J	5	2.8	J	5	3.3	J	5	ND
Benzene	71-43-2	210,000	240,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Bromotorm	75-26-2	1,500,000	1,700,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND	5	ND	ND	5	ND	ND	5	ND	ND	5	ND	5
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Chlorotorm	67-66-3	17,000	19,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	0.46	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2-Dibromo-3-chloropropene	96-12-8	11,000	12,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,1-Dichloroethane	107-06-2	1,000,000	73,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2-Dichloroethane	107-06-2	63,000	4,300,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
trans-1,2-Dichloroethene	156-60-5	3,700,000	2,100,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
cs-1,2-Dichloroethene	156-59-2	1,900,000	38,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,1-Dichloroethene	75-35-4	33,000	180,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2-Dichloropropene	78-67-5	160,000	470,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
trans-1,3-Dichloropropene ¹	10061-02-6	410,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
cs-1,3-Dichloropropene	10061-01-5	410,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND	5	ND	ND	5	ND	ND	5	ND	ND	5	ND	5
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND	1	ND	ND	5	ND	ND	5	ND	ND	5	ND	5
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	ND	1	0.27	J	1	0.28	J,B	1	1	1	0.51	J,B	1
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND	3	ND	ND	3	ND	ND	3	ND	ND	3	ND	3
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Trichloroethene	79-01-6	970,000	10,000,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Trichlorofluoromethane	75-69-4	10,000,000	220,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1
Vinyl Chloride	75-01-4	63,000	220,000	ug/kg	ND	1	ND	ND	1	ND	ND	1	ND	ND	1	ND	1

Table 2
Summary of Soil Analytical Results
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

TCL Semivolatiles	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC	Location ID		Sample Date	Depth to GW	Start Depth (ft)	End Depth (ft)	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			0-2 ft Surface Soil	2-15 ft Sub-Surface																					016-FB-2-103107	007-FB-1-103007	031-FB-3-110107	011-TB-1-103107	027-TB-2-103007	038-TB-3-110107																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND</

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

		PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID		016-FB-2-103107		007-FB-1-103007		031-FB-3-110107		011-TB-1-103107		027-TB-2-103007		038-TB-3-110107			
CAS No.	0-2 ft Surface Soil	2-15 ft Sub-Surface	Sample ID	Sample Date	Depth to GW	Start Depth (ft)	End Depth (ft)	07J310198-005	10/30/07	07K020245-004	10/30/07	07J310198-011	10/31/07	07K010229-016	10/30/07	07K020245-011	10/30/07		
			WATER	1.00	WATER	1.00	WATER	1.00	WATER	1.00	WATER	1.00	WATER	1.00	WATER	1.00	WATER	1.00	
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
			Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q
PCB (ug/kg)			Units																
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND	0.95	ND		0.95	ND	0.95	ND	-	-	-	-	-	-	
PP Metals (mg/kg)			Units		Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Antimony	7440-36-0	1,100	190,000	mg/kg	ND	2		ND	2	0.23	B	2	-	-	-	-	-	-	-
Arsenic	7440-38-2	53	190,000	mg/kg	ND	1		ND	1	0.33	B, J	1	-	-	-	-	-	-	-
Beryllium	7440-41-7	190,000	190,000	mg/kg	ND	1		ND	1	ND	-	1	-	-	-	-	-	-	-
Cadmium	7440-43-9	210	190,000	mg/kg	ND	1		ND	1	ND	-	1	-	-	-	-	-	-	-
Chromium III	7440-47-3	190,000	190,000	mg/kg	1.6	B, J	2	1.4	B, J	2	1.6	J	2	-	-	-	-	-	-
Chromium	7440-50-8	100,000	190,000	mg/kg	ND	2		0.17	B	2	2.8	B	2	-	-	-	-	-	-
Copper	7439-92-1	1,000	190,000	mg/kg	ND	1		ND	1	ND	-	1	-	-	-	-	-	-	-
Lead	7439-97-6	840	190,000	mg/kg	ND	0.2		ND	0.2	ND	0.073	B	1	-	-	-	-	-	-
Mercury	7440-02-0	56,000	190,000	mg/kg	ND	5		ND	5	ND	-	5	-	-	-	-	-	-	-
Nickel	7782-49-2	14,000	190,000	mg/kg	ND	1		ND	1	ND	-	1	-	-	-	-	-	-	-
Selenium	7440-22-4	14,000	190,000	mg/kg	ND	1		ND	1	ND	-	1	-	-	-	-	-	-	-
Silver	7440-28-0	200	190,000	mg/kg	0.21	B	1	0.048	B	1	0.089	B	1	-	-	-	-	-	-
Thallium	7440-28-0	200	190,000	mg/kg	ND	5		0.93	B	5	1.1	J	5	-	-	-	-	-	-
Zinc	7440-66-6	190,000	190,000	mg/kg	ND	5		ND	5	1.1	J	5	-	-	-	-	-	-	-
General Chemistry			Units		Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	NA	NA		NA	NA	NA	NA	NA	-	-	-	-	-	-	-

Laboratory Qualifiers:

Organic Qualifiers:

B = Analyte was detected in the method blank.

J = Estimated Result. Result is less than RL.

Inorganic Qualifiers:

B = Estimated Result. Result is less than RL.

J = Analyte was detected in the method blank.

Notes:

PADEP = Pennsylvania Department of Environmental Protection

MSC = PADEP's Medium Specific Concentration for surface and subsurface soil.

RL = Reporting Limit.

NS = No Act 2 Remediation Standard.

NA = Not Analyzed or Not Applicable.

ND = Not Detected at concentrations above the laboratory reporting limit.

ug/kg = microgram per kilogram.

mg/kg = milligram per kilogram.

1. MSC listed for cis-1,3-Dichloropropene atNDTrans-1,3-Dichloropropene is based on the MSC for 1,3-Dichloropropene (Total).

2. Chromium III was used as the most stringent chromium standard.