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List of Facilities, Activities, or Conditions Requiring Assessment Documents Describing New York State and Federal Analytical Methodology Example of the Required Level of Effort for Phase II ESAs at Typical Sites Title 15, Chapter 24 of the Rules of the City of New York

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# LIST OF FACILITIES, ACTIVITIES, OR CONDITIONS REQUIRING ASSESSMENT

- 1. A facility, on or adjacent to a tax lot, which generates (including small quantity generators), stores, treats, or disposes of hazardous waste, as defined by RCRA and regulated by EPA and/or DEC.
- 2. A facility, on or adjacent to a tax lot, which manufactures, produces, prepares, compounds, processes uses, repackages or disposes of hazardous chemicals, as defined under New York City's Community Right-to-Know Law, N.Y.C. Admin. Code tit. 24, Ch. 7 (1992).
- 3. A facility, on or adjacent to a tax lot, which is included on the following list:
  - Adhesives and sealants manufacture
  - Advertising displays manufacture
  - Agricultural machinery manufacture (including repairs)
  - Aluminum manufacture or aluminum produces manufacture
  - Aircraft manufacture (including parts)
  - Airports Appliance (electrical) manufactore
  - Art goods manufacturer
  - Asphalt or asphalt products manufacture
  - Athletic equipment manufacture
  - Automobile and other laun tries
  - Automobile manufacture
  - Automobile rental establishments
  - Automobile vrecking establishme to
  - Automobile service stations
  - Interv manufacture
  - Broce manufacture
  - Blacksmith shops
    - Boat repair
    - Boat fue sales
  - Bout storage
  - Business machine manufacture
  - Camera manufacture
  - Canvas or canvas products manufacture
  - Carpet cleaning establishments
  - Carpet manufacture
  - Cement manufacture

- Ceramic product, manufactur
- Charcoal manufacture
- Chemical compounding or packaging
  - Clemical manufacture
- Chaning or cleaning and dyeing establishpients
- Clock manufacture
  - Cloning mufacture
    - Coal products manufacture
- Coal sales or storage
- Coke products manufacture
- Coil coating
- College, university, trade school laboratories
- Construction machinery manufacture
- Copper forming or copper products manufacture
- Cosmetics or toiletries manufacture
- Dental instruments manufacture
- Dental laboratories
- Disinfectant manufacture
- Drafting instruments manufacture
- Dry cleaning establishments
- Dumps
- Electric power or steam generating plants
- Electric power substations
- Electric and electronic components manufacture
- Electric appliance manufacture

- Electric supplies manufacture
- Electroplating or stereotyping
- Engraving or photo-engraving
- Exterminators
- Explosives manufacture
- Felt products manufacture
- Felt products bulk processing, washing or curing
- Fertilizer manufacture
- Filling stations
- Film manufacture
- Fire stations
- Foundries ferrous or non-ferrous
- Fuel sales
- Fungicides manufacture
- Fur tanning, curing, finishing or dyein
- Furniture manufacture
- Garbage incineration, storage or reduction
- Gas manufacture, storage
- Gasoline service static s
- Generating plants, elegric or steam
- Glass manufacture
- Glue manufacture
- If courses
- Graphite or graphite products manufacture
  - Sum and wood chemicals manufacture or processing
  - Hair products manufacture
- Hardware manufacture
- He iports

Induction or garbage reduction

- Ink or ink ribbon manufacture
- Insecticides manufacture
- Inorganic chemicals manufacture
- Iron and steel manufacture
- Jewelry manufacture

- Junk yards
- Laboratories, medical, dental, research, experimental
- Leather tanning, curing, finishing or dyeing
- Linoleum manufacture
- Luggage manufacture
- Lumber processing
- Machine shops including tool, die, expattern making
- Machine toors planufacture
- Machinery manufacture or rep in
  - Machanical products manufacture
- Nodical appliance munufacture
- Medical instruments manufacture
- Medical Aboratories
- Metas manufacture including alloys or foil
- Netal casting or foundry products
- Netal finishing, plating, grinding, polishing, cleaning, rust-proofing, heat treatment
- Metal ores reduction or refining
- Metal product treatment or processing
- Metal reduction, refining, smelting or alloying
- Metal treatment or processing
- Mining machinery manufacture
- Mirror silvering shops
- Motorcycle manufacturer
- Motor freight stations musical instruments manufacture
- Newspaper publishing
- Non-ferrous metals manufacture
- Office equipment or machinery repair shops
- Oil, public utility stations for metering or regulating oil sales
- Oil storage
- Optical equipment manufacture
- Organic chemicals manufacture
- Orthopedic appliance manufacture

- Ore mining
- Paint and ink manufacture
- Paper and pulp mills
- Paper products manufacture
- Pesticides manufacture
- Petroleum or petroleum products refining
- Petroleum or petroleum products storage and handling
- Pharmaceutical products manufacture or preparation
- Photographic equipment and supplies manufacture
- Plastics and synthetic products manufacture and processing
- Plastics raw manufacture
- Plumbing equipment manufacture
- Porcelain enameling
- Precision instruments manufactu
- Printing and publishing
- Pumping stations, sewage
- Radioactive waste disposal services
- Railroad equipment manufacture
- Railroad rights of Vays, substation
- Railroad finight terminals, rares or appurtenances
- Refricerating plants
- Rubber processing of manufacture
- Rubber products manufacture
- Sewage lisposal plants, pumping stations
- Ship or toat building repair yards
- Shipping waterfront
- shoes manufacture

- Sign painting shops
- Silver-plating shops
- Silverware manufacture, plate or sterling
- Slag piles
- Soap and detergent manufacture
- Soldering shops
- Solvent extraction
- Steam electric power plants
- Steel product hanufactur
- Tar produces manufacture
  - Textiles bleaching product manufacture or
- Tuxtile mill

lyeing

- Thermometer manufacture or assembly
- Tik manu. octure
- Timber products manufacture
- Topl or hardware manufacture
- oys manufacture
- Trailer manufacture
- Transit substations
- Truck manufacture
- Trucking terminal or motor freight stations
- Turpentine manufacture
- Varnish manufacture
- Vehicles manufacture
- Venetian blind manufacture
- Welding shops
- Wood distillation

# **DOCUMENTS DESCRIBING NEW YORK STATE AND FEDERAL ANALYTICAL METHODOLOGY**

The NYSDEC Analytical Services Protocol (ASP) was last updated in July 2005. The reports documenting the latest version of ASP can be obtained from NYSDEC Division of Water Assessment and Management within the Division of Water. (518) 402-8156 or http://www.dec.ny.gov/chemical/23850.html.

The NYSDEC Division of Environmental Remediation provides guidance on sampling, analysis and quality assurance in its Draft DER-10 Technical Guidance for Site Investigation and Remediation in Chapter 2. The guidance can be obtained from the NYSDEC Division of Environmental Remediation. <u>http://www.dec.ny.gov/regulations/2393.html</u>.

Guidance on soil cleanup objectives are provided by the NYSDEC in Part 375 Remedial Program Soil Cleanup Objectives. The Soil Cleanup Object guidance can be found at the following web page: <u>http://www.dec.ny.gov/regs/15507.ntml</u>.

Guidance on ambient water quality standards are provided by the NYSDEC in Technical 2. Operational Guidance Series (TOGS). The TOGS guidance can be found at the following web page: <u>http://www.dec.nyzow/regulation//2672.html</u>.

Guidance on soil vapor and vapor intrusion is provided New York State Departmen of Health (NYSDON). Geneer for Environmental Health, Bureau of Environmental Exposure Investigation. "Final Guidance for Evaluating Scill Vapor Intrusion in the State of New York." October 2006. The guidance can be found at the following webpage: http://www.health.state.ny.us/environmental/indoors/vapor\_intrusion/

The analytical methods of solid matrices are published in US EPAN W- 46. Test Memory for Evaluating Solid Waste: Physical/Chemical Methods, 3rd edition, 4 volumes. Information for obtaining official printed copy of SW-846 Manual, CD-ROM, obtain to view the manual hd its dat are available to at http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.ht

Wastewater and drinking water analytical methods are provided by the US EPA Office of Water. Regulations and guidance are available from <u>http://www.epa.gov/safewater/regs.html</u> and <u>http://www.epa.gov/safewater/methods/analytic.lmethods.html</u>.

The analytical methods for collection and analysis of environmental rapor samples are published in US EPA Center for Environmental Research Information, Office of Research and Development. "Compendium Method TO-15: Determination of Volatile Organic Compounds (10Cs) in Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (aC/Ms)." January 1999. The guidance can be found at the following webpage: <a href="http://www.epa.gov/ttnamti1/files/amvient/airtox/tz-15r.pdf">http://www.epa.gov/ttnamti1/files/amvient/airtox/tz-15r.pdf</a>.

Guidance Documents for the heparation of a Otal CA surance Project Plan (QAPP) is available from US EPA's Quality System for Environmental Data and Technolog, Guidance is available at <a href="http://www.epa.gov/quality/qapps.html">http://www.epa.gov/quality/qapps.html</a>.



Recognized		Geophysical		Soil Sampling				Groundwater Sampling		
Environmental Concerns	Contaminant of Concern	Survey (GPR) recommended	Waste & Surface Samples	Preferred Method	# of Probes	Suggested Depths	Groundwater Sampling	Preferred Method	Comments	Estimated Range of Phase II Costs
			Soils/Sediments							
	Product		near line and remote or direct		2 portonk	Into water table or 10	Yes – variable depths	Temporary well points-uppradient		
Single UST	Stored	Yes	fill port	Soil Probes	2 per tank (minimum of)	ft below tank bottom		and downgradient	1	Low
Single 031	510100	105	Soils/Sediments	501110503	(minimum or)				-	LOW
			near lines and		2 per tank or		Yes-variable			
	Product		remote or direct		tank cluster	Into water table or 10	depths	Temporary well points-upgridient		
Multiple USTs	Stored	Yes	fill port(s)	Soil Probes	(minimum of)	ft below tank bottom		and downgradiest	1	Medium
					1 per ten					
Former Drum	Product		Surface coils		drums stored	3 depths (1 ft bgs, 5				
Storage Area	Stored	Yes	Surface soils, stained soils	Soil Probes	or 1 per 0.25 acre	ft bgs, and water table)	ves-valiable dunths	mporary well points	1.2	Medium
Storage Area	510160	163	stanieu sons	501110063	acre	2 depths (surface a d			1.2	weaturn
		Yes – If Phase I				5 feet into nation or				Medium depend-
Area of Suspect		shows UST/AST	Surface soils/			natural material in	Yes-variable	emporary well points for small		ing on size of
Fill Material	Various	history	waste piles	Soil Probes	1 per 0.25 acre	cluding,	depths	tes, wells for large sites	3	area
						3 depths ( otton., 5				
Drywells/	Products Used	Yes – for on-site			1 per suspect	for t below bottom &		Temporary well points adjacent to		
Leachpools	on Site	drains/sumps	Bottom sediments	Soil Probes	location	wate table	Yes	leachpool/drywell		Low
Formor Druc			Surface soils,	Soils Probes	As above per suspect loca-	s a vove per cond				Medium to High depending on
Former Dryc- leaners	VOC's	No	stained soils	or borings	tion	is above per com	s	Temporary well point		site conditions
leaners	1003		Stanica Solis	or bornings	As above p r					Medium to High
Former Gasoline	VOC's, SVOC's,		Surface soils,		suspect i ca-	As above per undi	Yes-variable	Temporary well point - upgradient		depending on
Stations	metals	Yes	stained soils	Soil Probes	tin	tion	depths	and downgradient	1.2, 4	site conditions
					1, er suspect	Surface sulls pro-	Yes-variable			Medium depend-
Junk Yard/ Au-	VOC's, SVOC's,		Surface soils,		ncalon, areas	posed excave in	depths	Temporary well point- upgradient		ing on size of
tomobile Salvage	metals	Yes	stained soils	Soil Probes	of tained soils	depths		and downgradient	4	area
	Metals, cya-		C of a second			Surface soils pro-				
Metal Plating/ Finishing	nide, VOC's, SVOC's	Yes	Surface soils, stained soils, ACM	Soil Nobes	1 per suspect location	posed excavation depths, watertable	Yes-variable depths	Minimum of one upgradient and two downgradient temporary well points	4	High
FILIISIIIIIg	3000 5	Tes	Stallieu solis, ACIVI	00 Ags	location	Tieptils, watertable	deptils	Additional temporary well points at	4	High
Small Industrial				$\sim$		Surface soils pro-		potential		
Sites (1 to 2	Various-		Surface soils,	Soil Probes/	1 Jer Spect	posed excavation		One upgradient and two downgra-		
acres)	Products Used	Yes	stained soils, ACM	borings	location	depths, watertable	Yes	dient well points		High
								Minimum of one upgradient and two		
						Surface soils pro-		downgradient temporary well points		
Large Industrial	Various-		Surfline solis,	St. Probes		posed excavation	Vee	Additional well pointss at potential		\/am.11-1-
Sites (2+ acres)	Products Used	Yes	tained soils, ACM	& Conings	location Estimated Phase II (	depths, watertable	Yes	recommended	4	Very High
Comments: Monitoring Wells nee Nearby catchbasins ar Fill materials should b Fuel oil, waste oil tank	nd drywells should als e adequately charact	so be examined erized for aisposal	ji	Low- Media High- Very H	\$1,000 to \$15,000 um-\$15,000 to \$30,00 \$30,000 to \$50,000 High- \$50,000 plus	00	contamination is found t	he costs to determine the nature and extent of	the contaminatic	on rise dramatically.

### §24-01 AUTHORITY

These rules are promulgated pursuant to §1403 of the Charter of the City of New York and in accordance with §11-15(c), the Zoning Resolution of the City of New York.

### §24-02 APPLICABILITY

These rules shall apply in connection with the environmental review pursuant to City Environmental Quality Review (CEQR) of any Zoning Map Amendment subject to review and approval pursuant to §§197-c and 197-d of the New York City Charter where one or more tax lots in the area subject to the Zoning Map Amendment and not under the control or ownership of the person seeking such Zoning Map Amendment, have been identified by the Lead Age or as likely to be developed as a direct consequence of the action. These rules shall not apply to the environmental review by the City of a Zoning Map Amendment as it affects property under the control or ownership of sucception, which shall be conducted in accordance with CEQR requirements governing the review of intential haz rdous material contamination or noise or air quality impacts for such property.

### §24-03 DEFINITIONS

The following definitions shall apply to this rule, §24-01 et see unless be text specifically indicates otherwise.

*cEQR.* "CEQR" shall mean the City Environmental Quality Review, Chapter 5 of Title 62 or the Rules of the City of New York.

*CEQR TECHNICAL MANUAL.* "CEQR Technical Manual" shall mean the City Environmental Quality Review Technical Manual issued by OEC in December 1993 together with an updates, supplements and revisions thereto.

city. "City" shall mean the City of New York.

**CONTAMINATION.** "Contamination," "Contaminated," or "to Contaminate" shall mean the effect(s) on a tax lot(s) from hazardous materials, hazardous substituces, hazardous wastes and or petroleum.

DAY. "Day" shall mean a business diy.

*DCP.* "DCP" shall mean the Nev York City Department of City Planning.

DEC. "DEC" shall mean the New York State Department of Environmental Conservation.

DEPARTMENT. "Department" shall mean the New York City Department of Environmental Protection.

**DEVELOPMENT.** "Develop" shall mean a change of use and/or any work on a tax lot(s) that involves soil disturbance, including, but not limited to demolition, grading, or excavation related to the construction, enlargement, and/or extension of a normal existing structure(s) on a tax lot(s).

**DEVENDENTIALE**. "Development site" shall mean a tax lot(s) located within the area of a proposed Zoning Map Amendment which is not under the control or ownership of the applicant for such Zoning Map Amendment and which the Leer Agency has identified pursuant to CEQR as likely to be developed as a direct consequence of the Zoning Map Amendment.

DOB. "DOB" shall mean the New York City Department of Buildings.

(E) DESIGNATION. "(E) Designation" shall mean the designation of an "E" on the Zoning Map pursuant to §11-15 of the Zoning Resolution of the City of New York.

EPA. "EPA" shall mean the United States Environmental Protection Agency.

HAZARDOUS MATERIAL. "Hazardous Material" shall mean any material, substance, chemical, element, compound, mixture, solution, product, solid, gas, liquid, waste, byproduct, pollutant, or contaminant which when released into the



environment may present a substantial danger to the public health or welfare or the environment, including, but not limited to those classified or regulated as "hazardous" or "toxic" pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C.A. §9601 (1995) et seq., the Resource Conservation and Recovery Act (RCRA) 42 U.S.C.A. §6901 (1995) et seq., the Clean Water Act (CWA), 33 U.S.C.A. §1251 (1986) et seq., the Clean Air Act (CAA) 42 U.S.C.A. §7401 (1995) et seq., Toxic Substances Control Act (TSCA), 15 U.S.C.A. §2601 (1998) et seq., Transportation of Hazardous Materials Act, 49 U.S.C.A. §5101 (1997) et seq., the Hazardous Substances Emergency Response Regulations, 15 RCNY Chap. 11, and/or the List of Hazardous Substances, 6 NYCRR Part 597.

HAZARDOUS WASTE. "Hazardous Waste" shall mean any waste, solid waste or combination of waste and solid waste listed or regulated as a hazardous waste or characteristic hazardous waste pursuant to RCRA, 42 U.S.C.M. §6901 (1995), et seq. and/or Identification and Listing of Hazardous Wastes, 6 NYCRR Part 371 et seq.

*LEAD AGENCY.* "Lead Agency" shall mean the agency responsible under CEQR for the conduct of environmental evitor in connection with a Zoning Map Amendment.

**NOTICE OF SATISFACTION.** "Notice of Satisfaction" shall mean a written notice issued by the Department pulsuant to §24-07 of this rule documenting completion of all applicable (E) Designation requirements under this rule

OEC. "OEC" shall mean the New York City Mayor's Office of Environmental Socialization.

**OWNER.** "Owner" shall mean the person, including his or her successors of assigns, who is the recorded title holder of a tax lot(s).

PARTIES-IN-INTEREST. "Parties-in-Interest" shall mean any person with an enforceable property interest in a tax lot(s).

**PE COMPLETION CONFIRMATION.** "PE Completion Confirming of shall mean a written notice of completion of a Department approved remediation plan from a Professional Engineer, in a form a ceptable to the Department.

**PERSON.** "Person" shall mean any individual, trust, firm, corporation, joint stock company, association, partnership, consortium, joint venture, commercial entity or governmental entity.

**PETROLEUM.** "Petroleum" shall mean oil properoleum of any kind any in any form, including, but not limited to oil, petroleum, fuel oil, oil sludge, oil refuse, oil mixed with other waste, crude oil, gasoline and kerosene.

**PROJECT SITE.** "Project Site" shall m an a tax lot(s) that is under the control or ownership of the applicant for the removal of an (E) Designation from the zoning Map and is subject to proposed development by such applicant.

**RESTRICTIVE DECLARATION**. Destrictive Declaration<sup>1</sup> shall mean an instrument recorded against a tax lot(s) in the county office of land records and executed by all large in-Interest to such tax lot(s), setting forth restrictions and enforcement provisions with respect to implementation of a Remediation Plan pursuant to §24-07 of these rules.

TAX LOT. "Tax Lot" shall mean a tay lot identified by parcel number on the official tax maps of the City of New York.

**ZONING** TROUCE TO A State of the meaning set forth in §12-10 of the Zoning Resolution of the City of New York.

**ZOWING MAP A MENDMENT.** "Zoning Map Amendment" shall mean a proposed amendment to the Zoning Map subject to review and approval pursuant to §§197-c and 197-d of the New York City Charter.

# §24-04 PRELIMINAR'S SCREENING

The Lead Agency may prepare or may cause to be prepared a preliminary screening assessment conciang of visual or historical documentation of any of the following past or current uses at a Development Site, and/or other tax lot(s) that might have affected or be affecting a Development Site.

- (1) Incinerators;
- (2) Underground and/or above ground storage tanks;
- (3) Active solid waste landfills;
- (4) Permitted hazardous waste management facilities;



- (5) Inactive hazardous waste facilities;
- (6) Suspected hazardous waste sites;
- (7) Hazardous substance spill locations;
- (8) Areas known to contain fill material;
- (9) Petroleum spill locations;
- (10) Any past use identified in Appendix A.
- b. Based on the visual or historical documentation prepared under subsection (a), the Lead Agency may determine that an (E) Designation should be placed on the Zoning Mapfor the tax lot(s) identified up der subsection (a) in connection with adoption of the Zoning Map Amendment. In making such determination, the Lead Agency may consult with the Department.
- c. A Phase I Environmental Site Assessment pursuant to §24-05 shall not be required prior placement of an (E) Designation on the Zoning Map pursuant to this Section.

#### **§24-05** PHASE I ENVIRONMENTAL SITE ASSESSMENT

- d. For any Development Site that has not received an (E) Designation following review of visual or historical documentation pursuant to §24-04, the least igency shall conduct or shall cause to be conducted, a Phase I Environmental Site Assessment Phase I ESA)
- e. The Phase I ESA may be limited to:
  - (1) Historical land use review,
  - (2) Regulatory agency list rever, and
  - (3) Site and surrounting area reconnais ance visit.
- f. A report entitled "Phase LESA Report" and any supplements thereto, summarizing the Phase LESA shall be prepared by or for the Lead Agency and a copy of such report shall be provided to the Department. The Phase LESA Report shall include any information discovered in the Phase LESA. The Department r as provide the Lead Agency with any additional information it deems relevant together with any somments regarding the contents of the Phase LESA and any supplements thereto within twenty (20) days of receipt of the Phase LESA Report.
- g. The Lead Agency shall respond to the Department's comments and any additional information either by traving or causing DOP to place an (E) on the Zoning Map for the relevant tax lot(s) or by issuing a Final Phase I ESA report that addresses any such comments and/or additional information. The Lead Agency shall inform the Department of such determination.

#### 4-0 PHASE II ENVIRONMENTAL SITE ASSESSMENT

- Before an applicant may seek any building permit for development from DOB with respect to a tax locks, uppert to an (E) Designation, the applicant shall:
  - (1) Complete a Phase II Environmental Site Assessment (Phase II ESA) in accordance with this section to determine the level and extent of contamination at the proposed Project Site; or
    - (2) Submit to the Department historical, regulatory or other evidence that a Phase II ESA is not required for the proposed Project Site, which the Department shall review in accordance with §24-09.
- i. The applicant shall prepare and submit to the Department a Work Plan to undertake the Phase II ESA, prepared in accordance with the CEQR Technical Manual. Such Work Plan shall also include:



- (1) A detailed description of the proposed Project Site;
- (2) A detailed description of the proposed development at the Project Site;
- (3) A description of the projected time frame for development at the Project Site;
- (4) A description of the proposed use of the Project Site;
- (5) Copies of reports of any previous investigations related to the presence or suspected presence of contamination on the Project Site.
- j. Where applicable and at a minimum, the following procedures or requirements shall be implemented in the Phase II ESA for all sampling techniques and methods:
  - (1) All samples shall be analyzed by a laboratory accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP);
  - (2) Samples from sites on the DEC Registry of Inactive Hatardous Waste Sites sharuse a laboratory certified under EPA's Contract Laboratory Program - DEC's Analytical Services Program (ASP);
  - (3) EPA SW-846, 40 C.F.R. 261, which deline tes the PA Target Compound List/Target Analyte List, or an EPA approved successor method shar be used;
  - (4) Toxicity Characteristic Leaching Procedure, Method 13.1, as delineated in EPA SW-846, 40 C.F.R. 261, or an EPA approved successor method statistic sed.
- k. The Department will review the Work Planin accordance with §24-09.
- I. The applicant shall undertake the Nork Plan as approved by the Department.
- m. Upon completion of the Phase II LSA, a report entitled mase II ESA Report" summarizing the Phase II ESA shall be submitted to the Department. The Phase II ESA Report shall include:
  - (1) A summary if the findings of all the studies and/or investigations performed;
  - (2) A description of all assessment reconnaissance techniques in accordance with applicable Federa and state laws and Pepartment guidelines;
  - (5) Sampling Results, which shar be presented in summary tables and compared to all relevant State and Federal guidance values, standards and regulations;
  - (4) Maps of the cax lots (1''=50') including but not limited to: USGS quadrangle map, name of quad and Norb a row, on which the following is clearly indicated:
    - All physical site characteristics with location of all soil borings, soil gas points, groundwater monitoring wells, USTs, vent lines, fill lines, and other pertinent information;
      - Where relevant based on the conditions of the Project Site, a depiction of groundwater elevation and flow direction;
    - (iii) Where relevant based on the conditions of the Project Site, a soil-gas concentration map with contours; and
    - (iv) All identified sources of releases and the extent and concentrations of contaminant plumes in all media.
    - (5) Appendices, which shall include:
      - (i) All raw data,

(i)

(ii) Laboratory methods,

- (iii) Chain-of-custody forms,
- (iv) QA/QC plan,
- (v) Field notes,
- (vi) Soil boring/monitoring well logs,
- (vii) As-built well construction details,
- (viii) Modeling programs used,
- (ix) Calculations and formulas, and
- (x) Physical/chemical properties of chemical compounds of concern.
- (6) An assessment, based on findings of the Phase II ESA, of whether or not a Remediation Plan is required for the Project Site.
- n. The applicant may submit a Remediation Plan with the Phase Esteport.
- o. The Department will review the Phase II ESA Report in providence with §24-09.
- p. Upon completion of its review of the Phase II ESA pepert, the Department will determine whether a Remediation Plan is required.
  - (1) If the Department determines that a Remediation Plan Renor required, the Department will issue a Notice of Satisfaction letter to DOB;
  - (2) If a Remediation Plan has been submitted, the Department will review it in accordance with §§24-07 and 24-09;
  - (3) If the Department determines that a Remediation Plan is required and a Remediation Plan has not already been submitted by the applicant, the applicant shall submit a Remediation Plan for review by the Department in accordance with §§24-07 and 24-09.

#### §24-07 REMEDIATION PLAN

- q. Preparation of the Remediation Plan
  - Defore an applicant may seek any building permits from DOB with respect to a tax lot(s) subject to an (E) being ation, where the Department has determined that Remediation Plan is required personne to §24-06, the applicant shall prepare a Remediation Plan. The Remediation flan shall address all aspects of contamination, actual and/or potential, identified in the Phase II ESA Report, including, but not limited to:
    - Elevated levels of contaminants pursuant to applicable law and/or DEC guidelines;
    - The sources of contamination;
    - The exposure pathways for contamination;
    - (iv) Environmental exposure to contamination;
    - (v) Human health exposure to contamination;
    - (vi) Proposed cleanup criteria;
    - (vii) Health and Safety of construction workers on the tax lot(s); and
    - (viii) Health and Safety of the public and future users of the tax lot(s) within the constraints of technical feasibility, remedial technology, and monitoring requirements.



- (2) In preparing a Remediation Plan, the applicant shall consider all applicable remediation techniques, including, but not limited to, those set forth in the CEQR Technical Manual. The Remediation Plan shall include a list of all techniques considered and an explanation for the acceptance or rejection of those techniques.
- (3) The Department shall review the Remediation Plan in accordance with §24-09.
- (4) In conjunction with its review of the Remediation Plan, the Department may require execution of a Restrictive Declaration by the owner, or the owner's designee approved by the Department, for the tax lot(s) subject to the (E) Designation.
  - The Restrictive Declaration shall bind the owners or the owner's designed approved by the Department, to performance of the Remediation than in accordance with its terms, and shall include restrictions approved development of the subject tax lot(s);
  - (ii) In accordance with the Remediation Plan, the Restrictive Decleration may require monitoring or other measures that extend beyond the issuance of a Temporary Certificate of Occupancy or a Certificate of Occupancy for the Project Site;
  - (iii) The Restrictive Declaration shall achieve a procedure for Department review of satisfaction of any requirements forcained in the Restrictive Declaration pursuant to this subsection and release therefrom; and
  - (iv) The Restrictive Declaration shall be executed by all Parties-in-Interest to such tax lot(s) and shall be recorded against such tax lot(s) in the applicable county office of land records.
- r. Implementation of the Remediation an.
  - (1) Prior to implementation of the Remediation Plan, the applicant shall:
    - (i) Provide the Department with ten (10) days written notice of such planned implementation; and
    - (ii A copy of the recorded Restrictive Declaration, if such was required by the Department.

(2) After the Department has reviewed and approved the Remediation Plan in accordance with §24-09 and a neutrotive Declaration, if required by the Department, has been completed in accordance with laragraph (4) of subsection a. of this section, the Department may recommend to DOB issuance of such building permit or permits as are necessary to undertake the approved Remediation. In no event, however, shall the applicant seek or accept from DOL a Timporary Certificate of Occupancy or a Certificate of Occupancy until the Department issues a Notice of Satisfaction pursuant to paragraph (2) of subsection (c) of this section.

If implementation of a Department-approved Remediation Plan does not commence within one year of the date of the Department's approval thereof, such approval shall expire.

- (i) The applicant may request in writing to extend a Department approval for a Remediation Plan not less than thirty (30) days prior to the expiration of such Department approval.
  - (a) Any written request for an extension shall explain the circumstances for the delay in implementation of the Remediation Plan and document that the Remediation Plan remains valid.



- (b) The Department shall review a written request for an extension by the applicant in accordance with §24-09.
- (ii) If an approval for a Remediation Plan expires, the Applicant shall:
  - (a) Submit a new Remediation Plan for Department review in accordance with §24-09; or
  - (b) Submit a written request for a renewed approval of the expired Remediation Plan.
    - (1) Any written request for a renewed approval shall explain the circumstances for the delay in implementation of the Remediation Plan and doument that the Remediation Plan remainmalic
    - (2) The Department will review a written request for an extension by the Applicant in accordance with §24-09.
    - (3) The Department shall have the right to inspect any tax ot(s) subject to remediation pursuant to this rule with respect to the remediation, consistent with applicable health increases and the applicant shall allow any such inspection by the Department.
- s. Completion of the Remediation Plan.
  - (1) Upon the completion of the Department-approved Remediation Plan or written confirmation of completion of a subs and ally equivalent remediation from New York State, the applicant shall deliver to the pepartment, a PE Completion Confirmation in a form satisfactory to the Department.
    - (i) Requirements for monitoring or other measures in the Remediation Plan that extend beyond the issuance one Temporary Certificate of Occupancy or a Certificate of Occupancy for the Project Site and are included in a Restrictive Declaration in accordance with paragraph (4) of subsection a of this section, shall not preclude the issuance of a pS Completion Confirmation.
  - (2) Upon the Department's notice and approval of the PE Completion Confirmation, the Department shall issue. Notice of Satisfaction to the applicant, OEC, DOB and DCP within ten (10) days.
    - The Notice of Satisfaction shall specify that the environmental requirements relating to the (E) Designation have been satisfied and if applicable, a summary of any equirements for monitoring or other measures in the Remediation Plan that extend beyond the issuance of a Temporary Certificate of Occupancy or a Certificate of Occupancy for the Project Site that have been included in a Restrictive Declaration in accordance with paragraph (4) of subsection a of this section.

# §24-08 SATISFACTION OF (E) DESIGNATION REQUIREMENTS

(i)

- Issuance of the Notice of Satisfaction by the Department constitutes the Department's report specifying that the environmental requirements relating to the (E) Designation have been satisfied.
- u. The owner of any tax lot(s) subject to an (E) Designation may file a copy of a Notice of Satisfaction with the Department of City Planning. Upon receipt of such Notice of Satisfaction, DCP shall indicate such satisfaction as to the affected tax lot(s) on the listing of (E) Designations appended to the Zoning Map.



- v. When DCP has received Notices of Satisfaction for all tax lot(s) specified in the CEQR declaration with respect to the placement of an (E) Designation on the Zoning Map, it shall administratively remove such (E) Designation from the Zoning Map.
- w. DCP shall notify DOB, OEC and DEP in writing of the satisfaction of (E) Designation requirements for a tax lot(s) or of the removal of an (E) Designation from a Zoning Map.

### §24-09 DEPARTMENT REVIEW AND APPROVAL PROCEDURE

- a. At the written request of the applicant, the Department will conduct a pre-submission conference with the applicant regarding the required contents of any submission required pursuant to \$\$24-06 and 24-07 of this rule and the schedule for proceeding with such submission.
- b. Upon initial receipt of a submission required pursuant to this rule, the Department will eview such submission and provide written comments within thirty (30) days of receipt of such initial submission.
- c. If the Department requests additional information or a revised subrilission, the applicant shall resubmit the submission for review.
  - 1. Revised submissions will be reviewed by the Department as expeditionally as possible;
  - 2. Upon receipt of all information requested, the Department shall issue comments in writing with respect to the submission within ture, 30) days.
- d. If the applicant disagrees with the Department's comments, the upplicant shall have thirty (30) days, or such time as agreed upon by the Department and the applicant, to respond.
- e. Upon receipt and review of all required submission, the department will issue its determination either approving or disapproving the submission within thirty (30) days.
- f. If at any point in its review of a submission by the applicant, the Department requires more than the specified time period for the review, the Department will notify the applicant in writing of the necessity of such additional time.
- g. If at any time the hepartment fails to provide written comments within a time period specified under this section, or such time as agreed upon by the Department and the applicant, and fails to provide written police of the necessity of additional time, the applicant may submit a written notification to the Department requesting in a any comments be provided within thirty (30) days.

# §24-10 NOTIFICATIO

Discovery of a perfoleum spill or discharge on a tax lot(s) by the Department and/or the applicant must be reported in accordance with applicable Federal, State or local laws.

Discovery of evidence of "reportable quantities" of hazardous materials or hazardous wastes by the Department and/or the applicant on a tax lot(s) that pose a potential or actual significant threat to public real or the environment under Federal, State or local guidelines, must be reported in accorting with applicable Federal, State or local laws.

# §24-11 LEAD GENCY RECORDS/AGENCY CONSULTATION

- a. The Lead Agency shall maintain a single file containing copies of all Phase I ESA Reports issued pursuant to §24-05 of this rule, together with the relevant Environmental Assessment Statement, Environmental Impact Statement, or other CEQR determinations made in connection therewith.
- b. The Department, DCP, and OEC shall meet and confer on a periodic basis concerning the implementation of this rule.