

Check this box if you have two rattached any documents to this form (using the paperclip icon on the left).

ERTS #(s):	724381
Parcel # (s):	0121069010
County:	King
FSID #:	2041
CSID #:	16998
UST #:	Click to enter text.

SITE INFORMATION

Site Name (Name over door):	Site Address (including City, State, and Zip):	Phone Phone	Click to enter text.	
Reserve Silica Corporation	28131 SE Ravensdale Way	Email Click to enter text.		
Reserve Sinca corporation	Ravensdale, WA			
Site Contact, Title, Business:	Site Contact Address (including City, State, and Zip):	Phone	206-971-1567 (d) 206-217-1077 (c)	
Doug Steding Northwest Resource Law PLLC	71 Columbia St, Suite 325 Seattle, WA 98104	<u>Email</u> dsteding@n	wresourcelaw.com	
Site Owner, Title Business:	Site Owner Address (including City, State, and Zip)	Phone	Click to enter text.	
Click to enter text.	Click to enter text.	Email Click to	enter text.	
Site Owner Contact, Title,	Site Owner Contact Address (Including City, State,	Phone	Click to enter text.	
<u>Business:</u>	and Zip):			
Click to enter text.	Click to enter text.	Email Click to	enter text.	
Previous Site Owner(s):	Additional Info (for any Site Information Item):			
Click to enter text.	Click to enter text.			
Alternate Site Name(s):				
Click to enter text.				

Latitude (Decimal Degrees):	47.343992
Longitude (Decimal Degrees):	-121.986294

INSPECTION INFORMATION					ing site report for this site.	iction information, such as data or
Inspection Conducted? Date/Time: Yes □ No ⊠ Click to enter text.		E	Entry Notice:	Announced 🗌	Unannounced 🗌	
Photographs taken?	Yes 🗌	No 🛛	Note: Attach photographs or upload to PIMS			to PIMS
Samples Collected?	Yes 🗌	No 🛛	Note: Attach record with media, location, depth, etc.			

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RECOMMENDATION

No Further Action (Check appropriate box below):		LIST on Confirmed and Suspected
Release or threatened release does not pose a threat	\boxtimes	Contaminated Sites List:
No release or threatened release		
Refer to program/agency (Name: Click to enter text.)		
Independent Cleanup Action Completed (contamination removed)		

COMPLAINT (Brief Summary of ERTS Complaint):

33 truckloads of potentially contaminated soil was removed from a development parcel in Ruston WA, Pierce County, at the corner of Commercial and Baltimore. The soil is likely contaminated with arsenic, lead, and other heavy metals given the close proximity to the former Asarco smokestack, and the data that Asarco collected at this property many years ago.

The soil was illegally disposed of on the Reserve Silica Fill site, near the Reserve Silica Inert Waste Landfill, in Ravensdale WA, King County.

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):

In May 2023, Reserve Silica Corporation (Reserve) received 33 truckloads of arsenic and lead contaminated soil from a property located at 5301 North Commercial Street in Ruston, Washington (Source Property). The Source Property was contaminated with arsenic and lead from the former Asarco Smelter located in Ruston/North Tacoma.

Aspect Consulting LLC (Aspect), on behalf of Reserve, completed an investigation of the inappropriate placement of contaminated soil at the Reserve Silica property as an independent action under Washington's Model Toxics Control Act (MTCA). Aspect submitted two technical memoranda to Ecology summarizing the investigation results.

- Soil Investigation Report (Aspect, October 3, 2023)

- Cleanup Technical Memorandum (Aspect, October 11, 2023)

In September 2023, Aspect completed 16 soil borings within the area of the Reserve Property where the arsenic and lead contaminated soil had been placed (Subject Area). Soil samples were collected from each boring in 1-foot intervals above 10 feet bgs and 6-inch intervals below 10 feet bgs and were field screened for arsenic and lead using an x-ray fluorescence (XRF) analyzer. A total of 375 soil samples were collected. Soil samples were periodically collected for laboratory analysis to confirm metals concentrations measured by the XRF.

Arsenic and lead were consistently detected by the XRF and most measurements were below the MTCA Method A cleanup levels of 20 mg/kg and 250 mg/kg, respectively. Arsenic was detected at concentrations slightly above the MTCA Method A cleanup level in three fill soil samples with concentrations ranging from 22 mg/kg to 38 mg/kg. Arsenic was also detected at concentrations slightly above the MTCA Method A cleanup level in four native soil samples with concentrations ranging from 21 mg/kg to 31 mg/kg. The other 368 samples detected arsenic less than the MTCA Method A cleanup level. No single sample was more than twice the cleanup level (i.e., 40 ppm). Less than 10% of the samples exceeded the cleanup level. And the 95% upper confidence limit (UCL) is 8.5 ppm which is less than the cleanup level.

Lead was not detected above the MTCA Method A cleanup level in any soil samples.

The October 11, 2023 technical memorandum documents the soil management that occurred in the Subject Area. Approximately 50,000 cy of soil was placed in the Subject Area. One percent of this volume (500 cy) was the arsenic and lead contaminated soils. The other 99 percent of import soils are assumed to be clean fill. The placement method of the import fill, grading out over a large area, appears to have diluted the arsenic and lead contaminated soil.

Ecology published the Tacoma Smelter Plume Model Remedies Guidance with cleanup options for Tacoma Smelter Plume (TSP) contamination. TSP contamination is arsenic and lead in surface soil from the deposition of air pollution from the former Asarco smelter. The guidance is only for the TSP arsenic and lead contamination. One of the model remedies is dilution through mixing and grading. The October 11 technical memorandum presents an argument that the mixing and grading in the Subject Area utilized this model remedy. As the potential for arsenic and lead contaminated soil in the Subject Area was due to placement of contaminated soil, not deposition of air pollution from the Asarco smelter, the use of the model remedy is not appropriate.

While use of the TSP model remedy of mixing is not appropriate, nonetheless, the sampling results and soil management of mixing demonstrate that the arsenic and lead contaminated soil cannot be located in the Subject Area. Arsenic and lead results are statistically in compliance with the MTCA Method A cleanup levels.

Recommendation – under MTCA, a release of a hazardous substance has occurred, but does not pose a threat to human health or the environment. No further action is required under MTCA.

Investigator: Marian L. Abbett, PE	Date Submitted: 1/2/2024
BSERVATIONS Please check this box is	f you included information on the Supplemental Page at end of
	nclude the following: site observations, site features and cover, responsible for contamination, presence of water supply wells and other
Click to enter text.	
Documents reviewed:	

Click to enter text.

CONTAMINANT GROUP	CONTAMINANT	TIOS	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
	Phenolic Compounds	Select	Select	Select		Select	Compounds containing phenols (Examples: phenol; 4- methylphenol; 2-methylphenol)
	Non-Halogenated Solvents	Select	Select	Select	Select	Select	Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a CI, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropranol, formic acid, acetic acid, stoddard solvent, Naptha). Use this when TEX contaminants are present independently of gasoline.
	Polynuclear Aromatic Hydrocarbons (PAH)	Select	Select	Select	Select	Select	Hydrocarbons composed of two or more benzene rings.
Non-Halogenated Organics	Tributyltin	Select	Select	Select		Select	The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin) MTBE is a volatile oxygen-containing organic
	Methyl tertiary-butyl ether	Select	Select	Select	Select	Select	compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene	Select	Select	Select	Select	Select	Benzene
	Other Non-Halogenated Organics	Select	Select	Select	Select	Select	TEX
	Petroleum Diesel	Select	Select	Select		Select	Petroleum Diesel
	Petroleum Gasoline	Select	Select	Select	Select	Select	Petroleum Gasoline
	Petroleum Other	Select	Select	Select		Select	Oil-range organics
	PBDE	Select	Select	Select	Select	Select	Polybrominated di-phenyl ether
	Other Halogenated Organics	Select	Select	Select	Select	Select	Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol)
Halogenated	Halogenated solvents	Select	Select	Select	Select	Select	PCE, chloroform, EDB, EDC, MTBE
Organics (see notes at bottom)	Polychlorinated Biphenyls (PCB)	Select	Select	Select	Select	Select	Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects
	Dioxin/dibenzofuran compounds (see notes at bottom)	Select	Select	Select	Select	Select	A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). Do not use for 'dibenzofuran', which is a non- chlorinated compound that is detected using the semivolatile organics analysis 8270
	Metals – Other	Select	Select	Select		Select	Cr, Se, Ag, Ba, Cd
Matala	Lead	в	Select	Select		Select	Lead
Metals	Mercury	Select	Select	Select	Select	Select	Mercury
	Arsenic	в	Select	Select		Select	Arsenic
Pesticides	Non-halogenated pesticides	Select	Select	Select	Select	Select	Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
	Halogenated pesticides	Select	Select	Select	Select	Select	Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin)

CONTAMINANT GROUP	CONTAMINANT	TIOS	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
	Radioactive Wastes	Select	Select	Select	Select	Select	Wastes that emit more than background levels of radiation.
	Conventional Contaminants, Organic	Select	Select	Select		Select	Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon)
Other Contaminants	Conventional Contaminants, Inorganic	Select	Select	Select	Select	Select	Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia)
	Asbestos	Select	Select	Select	Select	Select	All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials.
	Other Deleterious Substances	Select	Select	Select		Select	Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments))
	Benthic Failures	Select	Select	Select		Select	Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures	Select	Select	Select		Select	For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity.
	Unexploded Ordinance	Select	Select	Select	Select	Select	Weapons that failed to detonate or discarded shells containing volatile material.
Reactive Wastes	Other Reactive Wastes	Select	Select	Select	Select	Select	Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal)
	Corrosive Wastes	Select	Select	Select	Select	Select	Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda)

(fill in contaminant matrix above with appropriate status choice from the key below the table)

Status choices for contaminants	
Contaminant Status	Definition
B— Below Cleanup Levels (Confirmed)	The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested
S— Suspected	The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present
C— Confirmed Above Cleanup Levels	The contaminant is confirmed to be present above any cleanup level. For example—above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant).
RA— Remediated - Above	The contaminant was remediated, but remains on site above the cleanup standards (for example—capped area).
RB— Remediated - Below	The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example— complete removal of contaminated soils).

Halogenated chemicals and solvents: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivative. Referral to the HSDB is recommended if you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

Dibenzodioxins and dibenzofurans are normalized to a combined equivalent toxicity based on 2,3,7,8-tetrachloro-p-dibenzodioxin as set out in WAC 173-340-708(8)(d) and in the Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures using Toxicity Equivalency Factors Focus Sheet (https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf). Results may be reported as individual compounds and isomers (usually lab results), or as a toxic equivalency value (reports).

FOR ECOLOGY II REVIEWER USE ONLY (For Listing Sites):									
How did the Site come to be known	 ☐ Site Discovery (receiv ☐ ERTS Complaint ☐ Other (please explain) 		Date (Date Report Received)						
Does an Early Notice Letter need to If <i>No</i> , please explain why:	be sent: Yes N Click to enter text.	ło							
NAICS Code (if known): Otherwise, briefly explain how prop <u>Click to enter text.</u>	Click to enter text. perty is/was used (i.e., gas	station, dry cleaner, pa	aint shop, vacant land, etc.):						
	Site Unit(s) to be created (Unit Type): Upland (includes VCP & LUST) Sediment If multiple Unites needed, please explain why: <u>Click to enter text.</u>								
Cleanup Process Type (for the Unit):	 No Process Voluntary Cleanup Prog Federal-supervised or c 		ent Action upervised or conducted						
Site Status: Awaiting Cleanup	Cleanup Complete – Act		Model Remedy Used?						
Site Manager (Default <u>Click to enter text.</u>) Click to enter text.									
Specific confirmed contaminants in <u>Click to enter tex</u> in Se		Facility/Site ID No. (if known): <u>Click to enter text.</u> Cleanup Site ID No. (if known):							
Click to enter text. in G	roundwater	<u>Click to enter text.</u>	in Kilowilj.						
Click to enter text. in O	ther (specify matrix: <u>Choose</u> a	an item.							

COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

Additional or Supplemental Information for Observations Page

Please use this box for any text that requires special formatting

Click to enter text.