WASHINGTON STATE DEPARTMENT OF ECOLOGY

INITIAL INVESTIGATION FIELD REPORT

ERTS Number: 618175
Parcel #: 4776500070
COUNTY: PIERCE

SITE INFORMATION

Site Name (e.g., Co. name over door): Dirk's Truck Repair, Inc	Site Address (including City and Zip+4): 2421 110th ST S Lakewood, WA 98499	Site Phone: 253-584-9180
Site Contact and Title: Patrick Dirk, Vice President and Service Manager	Site Contact Address (including City and Zip+4): 2421 110th ST S Lakewood, WA 98499	Site Contact Phone: 253-584-9180
Site Owner: Herman J. Dirk, President	Site Owner Address (including City and Zip+4): 2421 110th ST S Lakewood, WA 98499	Site Owner Phone: 253-584-9180
Site Owner Contact: See next page	Site Owner Contact Address (including City and Zip+4):	Owner Contact Phone:
Alternate Site Name(s):	Comments:	Is property > 10 acres? Yes ☐ No ☒
Previous Site Owner(s):	Comments:	

Location: Quarter-Quarter: 4-3 Section: 06 Township: 19 N Range: 03 E
Latitude: Degrees: 47 Minutes: 09 Seconds: 27.8 N
Longitude: Degrees: 122 Minutes: 28 Seconds: 15.4 W

INSPECTION INFORMATION

Inspection Date: 2/26/10	Inspection Time: 11:30 am		Entry Notice: Announced ☐	Unannounced ☒
Photographs	Yes ☒	No ☐	Weather: Clear ☐ Rain ☒	Temperature: 45 ° F
Samples	Yes ☒	No ☐	Wind Direction:	Wind Speed:

RECOMMENDATION

No Further Action (Indicate NFA in box below):		**LIST on ISIS** (Indicate in box below):	
Release or threatened release does not pose a threat	☐	Site Hazard Assessment	☒
No release or threatened release	☐	Interim Action	☐
Educational mailing	☐	Emergency Action	☐
Refer to program/agency (Name: _____)	☐	Independent Cleanup Action In progress	☐
Independent Cleanup Action Completed (i.e., contam, removed)	☐		

COMPLAINT (Brief Summary of ERTS):

Truck maintenance shop with industrial wash water draining to floor drains, connected to a series of tanks, and into a leach field in the ground.

SITE STATUS (Brief Summary of site condition(s) after investigation):

Soil is likely contaminated with metals, cPAH's, petroleum hydrocarbons and other associated compounds; groundwater may be impacted as well.

Investigator: J. Seger	Date Submitted: 5/5/2010

Addendum to cover page:

Site Owner Contacts/Consultants:

Edward Grubbs, President Vince Johnson, Director of R&D and Quality Control	Environmental Chemical Systems (ESC) International Chemical Systems, Inc P.O. Box 2029 Gig Harbor, WA 98335-4029	253-853-1300
Mel Franks, Field Project Manager	Cowlitz Clean Sweep (CCS), Div of PNE Corp Industrial Environmental Services 516 E. D Street Tacoma, WA 98421	253-383-3446

OBSERVATIONS

Description:

Dirk's Truck Repair encompasses four parcels in a small industrial area in the City of Lakewood. The southwest parcel contains a series of three settling tanks that discharge industrial wash water to a leach field. The soil type in this location is unknown. The Soil Survey of Pierce County lists this area as a historical gravel pit.

7/15/09: Tina Grigg, TPCHD, Local Source Control, conducted a joint inspection with Diana Halar, City of Lakewood Compliance Inspector. The facility review was conducted with Pat Dirk, service manager and son of the property owner. This facility services large commercial trucks. Their services include engine repair, pressure washing trucks and engine parts, and recycling antifreeze on site. The floor drain inside the wash area of the building discharges to a series of three subsurface tanks located outside of the building. It was also noted that all drains along the bay doors and two outside catch basins drain to this tank system. These tanks were reported by Pat to be 2,000 gallons each and operate to separate out the sediments and oil. They were last pumped out by ProcVac three years ago according to a receipt provided. Pat assumes that the effluent from the third tank discharges to a leach field in the unpaved parking area nearby. He said the site is not served by a public sewer or storm system.

9/2/09: Tina Grigg, TPCHD, conducted a follow-up inspection. Pat stated that the company that pumps out the oil/water separator system performs sampling of the contents. Tina asked Pat to locate the recent sampling and analysis reports. (No design or as-built plans were located for the oil/water separator).

10/12/09: Dee Williams, Ecology, and Diana, City of Lakewood, inspected the facility. Dee noted that the cleaner used in the parts washer had a pH of 11.8, and this could likely mobilize metals as a dissolved fraction through the system to the point of discharge. The Ecology report generated as a result of this facility inspection instructed Dirk's to cease the industrial wastewater release to the oil/water separator and dry well. In addition, all shop waste required designation. On 2/17/10, Dee Williams referred the case to Ecology's TCP for follow-up on the release into the ground from the tank system.

2/26/10: At site, Sharon Bell and Joyce Seger, TPCHD. Pat Dirk showed us the three-tank system and opened the lid of the third tank; the tops of the tanks were level with the ground surface. Pat commented that this was a state-of-the art system when it was put in about 20-25 years ago. There appeared to be some iron bacteria on the surface of the scum layer inside the tank, and a slight septic or anaerobic odor. Since the previous inspections, Pat said he had removed the downspout water from entering the system and had ceased the pressure wash operation. He said he was considering making this a closed loop system by capping off the outlet pipe of the third tank and putting in a pump to re-circulate the water back into the pressure washer. Pat provided the contact names of the environmental companies he was using to address the list of Ecology issues, and a copy of recent lab analysis of the tank contents sampled in January, 2010.

3/2/10: Sharon, TPCHD, advised Pat Dirk that the sample analyses provided were not particularly helpful in determining the extent of what was present in each tank. The samples were taken from a different layer in each tank and each analyzed for a different variety of contaminants, which did not produce consistent information from tank to tank for comparison. Some analytes were not applicable or used a different lab protocol than was useful. For example, halogens were detected, but were not differentiated by chemical species. Also, additional sampling of the oil/water separator tanks would not reveal what had already been discharged through the system into the leach field. Pat stated that the parts washer was not connected to the oil/water separator system, but the pressure washer/steam cleaner was, as well as the storm water drains. He said that Environmental Control Systems (ECS) is planning a closed-loop system for the separator system. Sharon advised Pat to run a dye test of indoor plumbing to make sure there was no septic wastewater being discharged into the separator system before they install the closed-loop system.

3/4/10: Sharon, TPCHD, spoke with Mel Franks, consultant, who sampled the tank system. Mr. Franks is with Cowlitz Clean Sweep (CCS). Three samples were collected from the tank system on both 12/11/09 and 1/6/10. It was clarified by Mel that the first tank is closest to the building and third tank is last in the series just prior to final release into the ground.

Report continued on next page …

Summary of sampling:

12/11/09:

Tanks # 1, 2, 3	Composite sample	Total Halogens	6.9 mg/L
Tank # 1	Sediment layer	TCLP RCRA 8 metals	variable results
Tank # 3	Liquid layer	Halogens	< 1.0 mg/L

1/6/10:

Tank # 1	Oil layer	Metals	variable results
	Oil layer	Halogens	47 mg/L
Tank # 2	Sediment layer	TCLP Benzene	< 0.05 mg/L
Tank # 3	**Oil/liquid layer**	**Diesel**	**114,000 mg/L**
	Oil/liquid layer	**Oil**	**105,000 mg/L**

3/5/10: Sharon, TPCHD, spoke to Pat Dirk. Pat stated that discontinuing the steam cleaning while trying to resolve these issues has hurt business. Although ECS has been trying to help manage system changes, to date, there has not been any site assessment or remediation. Sharon advised Pat to complete the closed loop system to get back in operation now, and to pursue the site assessment and clean up later through Ecology's VCP.

The owner acknowledged that waste going into the tank system was from pressure washing activities in the facility; however there is a discrepancy whether the waste fluids from the parts washer were also disposed of in this system. He also acknowledged that this tank system has been in place for 20-25 years and that it discharged into the ground. The results of the diesel and oil concentrations in tank # 3 were 140,000 mg/L and 105,000 mg/L respectively. As the diesel and oil results were significantly high in the third tank, it is reasonable to assume contaminants were released into the leach field, potentially impacting both soil and groundwater.

The TPCHD recommends this site be included on Ecology's Confirmed and Suspected Contaminated Sites List.

Description of past practices likely to be responsible for contamination:

ACTIVITIES OR PRACTICES RESPONSIBLE FOR CONTAMINATION:

Spill	☐	LUST	☐
Pesticide disposal	☐	Tank	☐
Landfill	☐	Improper handling	☒
Drums	☐	Improper disposal	☒
Other – Describe:			

Are discharges permitted (if yes, describe): No ☒ Yes ☐

Standard Industrial Code(s)

CONTAMINANT(S)

AFFECTED MEDIA	**CONTAMINANTS** (#1-16: See contaminants key) Enter letter designating status of contaminant: **C** = Confirmed (above cleanup levels); **S** = Suspected; **R**= Remediated															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ground Water			S				S		S		S					
Surface Water																
Drinking Water																
Soil			S				S		S		S					
Sediment																
Air																

1 Base/neutral organics	7 [illegible]oleum products	13 Co[illegible]sive wastes
2 Halogenated organic compounds	8 Phenolic compounds	14 Radioactive wastes
3 Metals - Priority pollutants	9 Non-halogenated solvents	15 Conventional contaminants, organic
4 Metals - Other	10 Dioxin	16 Conventional contaminants, inorganic
5 Polychlorinated biPhenyls (PCBs)	11 Polynuclear aromatic hydrocarbons (PAHs)	
6 Pesticides	12 Reactive wastes	

SITE INFORMATION

Soil type Unknown.

Slope Generally flat.

Site vegetation/cover present:

Forest	☐	Pasture/open field	☐
Bare soil	☒	Wetlands	☐
Brush	☐	Pavement	☒
Landscaped	☐	Surface water	☐

Other – Describe:

Are there any drinking water systems affected?	☐ Yes	☐ No
Municipal, private, or both? (Circle one)		
How many people are estimated to be affected? _____		
Is there a potential for a release or threatened release to affect a drinking water source?	☐ Yes	☐ No
Are there monitoring wells in the vicinity?	☐ Yes	☐ No
Are there dry wells in the vicinity?	☐ Yes	☐ No

CONTAMINANT PATHWAYS AND TARGETS

	Ingestion	Inhalation	Contact
Ground Water	X	X	X
Surface Water			
Drinking Water	X	X	X
Soil		X	
Sediment			
Air		X	

Targets possible:

Human, adult	☒	Residential	☐
Human, children	☒	Industrial	☐
		Commercial	☒

Sensitive environments (See WARM Scoring Manual for definition):

☒ Yes ☐ No If yes, describe:

A designated EPA sole source aquifer and the Clover Chamber Creek aquifer lie beneath this site. A number of surface water features, lakes, wetlands, and salmon bearing streams, occur within a 2 mile radius of the site. There are approximately fourteen Group A wells, three Group B wells and three Joint Base Lewis-McChord wells within a 2 mile radius of the site.

General Comments:

Pierce County Assessor-Treasurer ePIP

Parcel Summary for 4776500080

02/17/2010 02:36 PM

Taxpayer Details		Property Details	
Taxpayer Name:	DIRK HERMAN J	**Parcel Number:**	4776500080
Mailing Address:	2421 110TH ST S LAKEWOOD WA 98499-8735	**Site Address:**	2421 110TH ST S
		Account Type:	Real Property
		Category:	Land and Improvements
		Use Code:	6410-AUTO REPAIR SERVICES

Appraisal Details		Tax/Assessment	
Value Area:	PI Year 6	**Current Tax Year:**	2010
Appr Acct Type:	Industrial	**Taxable Value:**	691,100
Business Name:	DIRK'S TRUCK REPAIR	**Assessed Value:**	691,100
Last Inspection:	No physical inspection during prior 6 years		

Related Parcels

Group Account Number: 1651

Mobile/MFG Home and Personal Property parcel(s) located on this parcel: 1200111969

Real parcel on which this parcel is located: n/a

Tax Description

Section 06 Township 19 Range 03 Quarter 43 J. D. SHOTWELL INDUSTRIAL PARK: J. D. SHOTWELL INDUSTRIAL PARK L 8 SW OF SE 06-19-03E SEG P-M-2708 SP EMS

"Our office works for you, the taxpayer"

Pierce County Assessor-Treasurer
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www.piercecountywa.org/atr

ERTS # 618175 2421 110th ST S, Lakewood APN 4776500070

Dirk's Truck Repair

Map Legend

- Highlighted Tax Parcels
- Tax Parcels
- Roads
- Interstate
- Limited Access State Routes
- Other State Routes
- Ramps
- Major Arterial
- Collector
- Local Access
- County - 2008 - Ortho

Scale 1:702

0 30 60 ft.

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