APPENDIX D
CVOC SOURCE AREA REMEDIATION REPORT

DELIVERED VIA ELECTRONIC MAIL

January 18, 2011

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Division of Environmental Remediation, Region 1
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Re: CVOC Source Area Remediation and Groundwater Assessment Report
Commander Oil Terminal
One Commander Square
Oyster Bay, New York
NYSDEC Case No. 99-25216

Mr. Acampora:

Kleinfelder East, Inc (Kleinfelder), on behalf of Commander Terminal Holdings, LLC (Commander Oil) has prepared this CVOC Source Area Remediation and Groundwater Assessment Report for the Commander Oil Terminal located in Oyster Bay, New York (Site). This report documents the methods and findings of the chlorinated volatile organic compound (CVOC) remediation and investigation activities conducted at the Site as outlined in the New York State Department of Environmental Conservation (NYSDEC) approved Remedial Action Plan (RAP) dated June 4, 2010 and related to NYSDEC Case No. 99-25216, in addition to the investigation work plan sent via email on October 25, 2010.

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In accordance with the RAP dated June 4, 2010, Kleinfelder supervised the excavation of CVOC and petroleum contaminated soils in the suspected source area located on the north side of the Site adjacent to MW-14 and MW-17. An excavation approximately 15 feet wide by 40 feet long by 2 feet deep was completed and endpoint soil samples were collected and analyzed.

In accordance with the investigation work plan dated October 25, 2010 Kleinfelder supervised the collection of discrete groundwater samples and the installation of three shallow groundwater monitoring wells. Discrete groundwater samples at multiple depths were collected at seven select locations illustrated in Figure 2. In addition, five soil borings were installed at locations adjacent to the CVOC source area and to the east and west of MW-14. Three of the soil borings were converted to shallow monitoring wells and groundwater samples were collected and analyzed for CVOCs.

The objective of this assessment was to:

- Further delineate the CVOC source area in the vicinity of groundwater monitoring well MW-14.
- Delineate the horizontal and vertical extent of CVOCs dissolved in groundwater.

1.0 SITE DESCRIPTION

The Site located at One Commander Square in Oyster Bay, New York (Figure 1) is currently an active oil terminal. The Site has been used as an oil terminal since 1929. The terminal has a current working storage capacity of over 5.6 million gallons, which classifies it as a Major Oil Storage Facility (MOSF). The daily through-put of the facility is approximately 100,000 gallons.

The surface of the Site is generally covered with asphalt and concrete. 24 aboveground storage tanks (ASTs) are located throughout the approximately 3.9-acre property. An office and maintenance building are located in the eastern portion of the property. A dock, for off-loading of petroleum products from barges to the ASTs, is located in Oyster Bay Harbor along the northeastern property border. A seawall constructed of concrete,

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rock and steel extends from the northeastern corner of the property approximately 160 feet to the northwest and 175 feet to the west. Pertinent Site features described above are presented on Figure 2.

The surrounding land use consists of residential and commercial properties to the southwest and northwest, respectively. The property to the north is a commercial business and a storage yard for boats and contractor equipment. White's Creek is located along the south eastern property boundary. A marina and Oyster Bay border the Site to the northeast.

The northeast corner of the Site consists of several ASTs, a dock used for off-loading fuel barges and a concrete seawall that was modified on several occasions. According to a subsurface investigative activities report entitled *Subsurface Investigation Report* (SSIR) dated November 17, 2005, the base of the seawall in the northeast corner has an estimated maximum depth of 4.5 feet below the surface of the marine sediments.

Several spills were reported from 1978 to present in the vicinity of the tank field. With the exception of the active 1985 spill incident (NYSDEC Case No. 85-00426), and 1995 spill incident (NYSDEC Case No. 99-25216) the remaining case numbers have been closed. NYSDEC Case No. 85-00426 was assigned May 6, 1985 based on a report that #2 fuel oil was observed to be seeping through the seawall into White's Creek and Oyster Bay.

NYSDEC Case No. 99-25216 was assigned for a release that occurred on November 13, 1995, when approximately 330 gallons of 1, 1, 2-trichloroethylene was spilled while refilling a vapor recovery coolant storage tank. The liquid was spilled due to equipment failure during the transfer from drums staged outside the containment wall to the storage tank inside the containment area. The release occurred inside the containment area and 214 gallons of fluid was recovered and 10 tons of soil was removed. Endpoint soil samples were not collected. The recovered fluid was a mixture of 1,1,2-trichloroethylene and standing water that was present in the containment area at the time of the release. The NYSDEC subsequently closed NYSDEC Case No. 99-25216 and reopened it following Commander Terminal LLC's voluntary submittal of an environmental baseline report dated November 10, 2008 prepared by Environmental Compliance Services, Inc., (ECS) for Commander Terminal that reported the detection of CVOCs in groundwater beneath the Site.

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In November 2008, a baseline environmental assessment report was prepared by Environmental Compliance Services (ECS) on behalf of Global Companies, LLC that identified concentrations of CVOCs in soil and groundwater in the area of MW-14 and in groundwater in MW-15, MW-16 and recovery well, RW-1 down gradient of the source area in the eastern portion of the Site. The assessment report was provided to the NYSDEC by Commander Terminals LLC and NYSDEC Case No. 99-25216 was reopened.

Subsequent subsurface investigations detected concentrations of dissolved-phase trichloroethene (TCE) and degradation compounds 1, 2-dichloroethane, cis- 1, 2-dichlorothene, trans-1, 2 dichloroethene and vinyl chloride (VC) in MW-17 and MW-19.

2.0 GEOLOGY/HYDROGEOLOGY

The geology observed in soil samples collected during multiple Site investigations consisted of coarse- to fine-grained sand and silt, clay, peat and fill material. The fill material beneath the Site consists of various shallow layers of construction material, silty sands, some ash, and marine sediments. An organic peat layer is present at depths ranging from 6 to 18 feet beneath the Site that overlies a sand and gravel layer. A clay deposit was identified ranging from 12 to 20 feet below grade (fbg). Both the clay and organic peat layers slope downward in a southeasterly direction towards the confluence of the Oyster Bay and White's Creek.

Groundwater beneath the Site ranges from 2.5 to 5 fbg and flows generally in a south-southeast direction towards the confluence of Oyster Bay and Whites Creek. Groundwater flow direction has varied slightly due to precipitation and operation of the groundwater recovery well RW-1. Based on historical information tidal influence on groundwater flow beneath the Site appears to be limited to the eastern boundary of the property adjacent to the Oyster Bay.

The most recent quarterly groundwater monitoring report dated November 22, 2010 interpreted groundwater flow to be in a south-southeast direction with a gradient of 0.05 foot/foot.

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3.0 CVOC SOURCE AREA EXCAVATION

On October 12, 2010, American Environmental Assessment Services (American Environmental) under contract to Kleinfelder, excavated and removed approximately 58 tons of CVOC and petroleum contaminated soils from the area adjacent to MW-14 and MW-17 as part of the CVOC source area remediation for the Site.

Prior to commencing with excavation, a safety meeting was conducted with Kleinfelder and American Environmental personnel and afterwards the work area was delineated using traffic control devices. Privacy screening was placed on the northern property-line fence adjacent to the excavation area.

A community air monitoring plan (CAMP) prepared specifically for the remedial excavation was implemented at the start of the field activities. In accordance with the CAMP, air was monitored for the presence of VOC vapors with a MiniRAE 2000 photoionization detector (PID) with a 10.6 ev lamp capable of displaying 15-minute running averages. Prior to monitoring, the PID was calibrated to a 100 parts per million by volume (ppm_v) isobutylene span gas according to the manufacturer's specifications. A Personal Dust Ram (PDR) 1000 Dust Monitor was used to monitor particulate concentrations at the Site. Three air monitoring locations were utilized during the excavation activities. Two stationary locations were established; one upwind, the other downwind of the work zone. The third monitoring area was within the work zone.

To monitor air quality in the work zone a PID was used along with Draeger tubes. The Draeger tubes were used to monitor for concentrations of benzene and VC in the work zone and along the perimeter of the excavation. As specified in the site specific health and safety plan prepared for the excavation activities, an action level of 0.5 parts per million (ppm) was established as measured using a vinyl chloride Draeger tubes. Sustained concentrations above 0.5 ppm would necessitate cessation of excavation activities.

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CVOC Source Area Excavation

The excavation activities commenced with the removal of the asphalt surface covering an area 15 feet wide by 40 feet long. The asphalt was removed using an excavator and was loaded into a dump truck for offsite recycling as construction debris. Afterwards, the excavator began removing the underlying soil (fill material) from the east side of the excavation and loaded it directly into a 30 cubic yard dump trailer. The excavated fill material consisted primarily of recycled concrete aggregate (RCA) mixed with sand and silts and some gravel. Groundwater and black colored petroleum hydrocarbon stained soil was encountered in the excavation at a depth of approximately 3.0 ft.

During excavation of the southeast corner at a depth of approximately 2 to 2.5 fbg, VC vapors were detected using the Draeger tubes and concentrations ranged from 0.25 ppm to 2 ppm. Upon detection of VC, work was stopped and Rusmar Foam Technology® AC-645 Long Duration Foam was applied to suppress vapors emanating from the soils within the excavation. Foam suppressant was applied several times over the course of the excavation activities which helped reduce VC concentrations to less than 0.5 ppm. Each time VC concentrations increased to 0.25 ppm, more foam vapor suppressant was applied.

Due to the repeated concentrations of VC above 0.5 ppm in work zone, the depth of the excavation was limited to 2.5 fbg. Excavating soils below this depth increased the VC concentrations above the working action level. During the excavation activities VOC monitoring in the work zone using a PID did not detect concentrations of VOCs above 0.4 ppm. Dust particulates and VOCs in air were not detected at concentrations above background levels at the upwind and downwind air monitoring stations.

During the excavation activities, two concrete slabs were uncovered in the south side of the excavation at a depth of approximately 3 fbg. Each slab was several inches thick and approximately 6 feet long. One slab was encountered east of MW-14, the other immediately west of the light pole along the south side of the excavation. These concrete slabs are thought to be part of the foundation of the concrete containment wall

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surrounding the AST 18. The approximate locations of the concrete are depicted in Figure 4.

When soil excavation was completed, a layer of polyethylene sheeting was placed in the excavation, and covered with imported recycled concrete aggregate. The excavation was filled to grade and compacted.

Endpoint soil samples were collected from the northern, western, eastern and one southern section of the excavation at depths ranging from 1.5 to 2.5 feet. A total of six endpoint soil samples: EP-1, EP-3, EP-5, EP-6, EP-7 and EP-8 were collected and the location of each endpoint soil sample is illustrated in Figure 4.

Endpoint soil samples were collected from the bottom of the excavation using a decontaminated stainless steel hand auger. The soil samples were removed from the auger, placed in plastic bags, field-screened for VOCs, classified and subsequently placed in laboratory supplied glassware and then placed in an ice-filled cooler, pending delivery to the laboratory. Each soil endpoint sample was analyzed for TCE, 1,2-dichloroethane, cis-1,2 dichloroethene, trans-1,2 dichloroethene, vinyl chloride (VC), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) in accordance with United State Environmental Protection Agency (USEPA) Method 8260.

Laboratory analytical results are summarized in Table 1, and graphically presented in Figure 4. Laboratory reports are included in Appendix B. Photographs of the excavation area and excavation activities are included in Appendix D.

A total of 58 tons of excavated soil was transported by Horwith Trucking, LLC to CWM Chemical Services LLC, located in Model City, New York and delivered on October 13, 2010 for treatment and disposal. The soil was shipped as a characteristic hazardous waste for TCE (D014) and VC (D043). Copies of the shipping manifests are included in Appendix C.

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4.0 DISCRETE GROUNDWATER PROFILING

Between November 18, 2010 and November 23, 2010, Associated Environmental Services (AES), of Hauppauge, New York provided drilling services to collect discrete groundwater samples and install five shallow soil borings, three of which were converted to shallow monitoring wells (MW-20, MW-21 and MW-22). Drilling was performed under the supervision of Kleinfelder personnel.

The objective of this phase of the assessment was to delineate the horizontal and vertical extent of dissolved-phase CVOCs in groundwater in the eastern half of the Site. As described in the October 25, 2010 investigation work plan, discrete groundwater samples were to be collected at each preselected location from approximately the three following depths:

- 4-5 fbg (above the peat layer)
- 10 fbg (beneath the peat layer)
- 20 fbg (beneath the peat layer).

To further delineate CVOC concentrations vertically, a fourth discrete groundwater sample was collected from a depth of 29 to 32 fbg at two locations: DS-4 and DS-5.

4.1 Methodology

Discrete groundwater samples were collected using a Geoprobe™ 6610 equipped with Geoprobe SP-16™ groundwater profiling equipment. The SP-16™ equipment incorporated direct-push probe tools, retractable screens and disposal drive points. Groundwater profiling equipment allows discrete groundwater samples to be collected at predetermined depths in an aquifer using the same borehole without generating drill cuttings or installing temporary monitoring wells. For the purpose of collecting groundwater samples during this assessment, the probe tool equipped with a retractable stainless steel screen and disposable drive tip was driven downwards to a predetermined depth. The cover of the screen was then retracted approximately 2 to 3

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feet exposing the screen and allowing groundwater to enter the screen. Polyethylene tubing equipped with a stainless steel check valve was inserted into the probe tool and the accumulated water was purged, generally three to five volumes of standing water. Following purging, a groundwater sample was collected using the same tubing and transferred to two 40 milliliter (mL) vials containing hydrochloric acid preservative. Purge water from the sampling activities was placed in a drum for off Site disposal.

After each groundwater sample was collected, the probe tool was retracted and equipment decontaminated using Alconox and water. A new disposable tip was replaced and the drill rod was returned to the borehole and driven down to the next selected depth. The tubing was replaced between each sample depth and the stainless steel check valve was decontaminated.

At the end of each day the groundwater samples were delivered to American Analytical Laboratories of Farmingdale, New York for analysis of TCE, 1,2-dichloroethane, cis-1,2-dichlorothene, trans-1,2 dichloroethene and VC in accordance with US EPA Method 8260.

The locations of the seven discrete groundwater sample points are illustrated in Figure 3. Due to the varying depth of the peat layer beneath the Site, the individual sampling depths varied from location to location. The depths of the peat layer was estimated at each location by reviewing soil boring logs of adjacent monitoring wells and soil borings prepared from previous Site investigations. Generally, at each sampling location, the first groundwater sample was collected from above the peat layer (2 to 12 fbg), the second groundwater sample from immediately below the peat layer (9 to 18 fbg), the third groundwater sample from 19 to 26 fbg; and in the case of the two additional groundwater samples, from 29 to 32 fbg.

Laboratory analytical results of the discrete groundwater samples are summarized in Table 2, and graphically presented in Figures 3, 3A, 3B, 3C and 3D. Laboratory reports are included in Appendix B.

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5.0 SHALLOW SOIL BORING AND MONITORING WELL INSTALLATION

On November 23, 2010, five soil borings were installed surrounding the CVOC excavation area to further delineate the horizontal extent of CVOC contamination in soil and groundwater adjacent to MW-14 and MW-17. Soil borings were initiated by hand clearing the locations to a depth of approximately 2.5 to 3 fbg where groundwater was encountered. Then, using a Geoprobe™ 6610 equipped with Macro Cores, continuous soil samples were collected down to the peat layer.

Four soil borings SB-1, SB-2, SB-3 and SB-5 were installed outside the excavation. SB-1, SB-2 and SB-5 were converted to shallow groundwater monitoring wells MW-20, MW-21 and MW-22; respectively. Soil boring SB-4 was installed along the southern edge of the excavation approximately 10 feet east of MW-14, and SB-3 was installed approximately 3 feet east of the southeast corner of the excavation, and north of DS-7. All five soil borings were completed to a depth that ranged from 8 to 9 fbg depending on the depth the peat layer.

Four additional soil borings were attempted in the area east of the excavation, however due to refusal conditions encountered at 3 fbg (suspected to be concrete) the soil borings were abandoned. The locations of the completed and abandoned soil borings, plus MW-20, MW-21 and MW-22 are shown on Figure 2.

Soil samples were collected continuously from each boring/well location using a Macro Core sampler. The soil samples were field-screened using a PID, and the soil sample interval with greatest PID response was transferred to laboratory supplied soil jars for subsequent laboratory analysis. PID response values from the soil field–screening are presented in the soil boring logs in Appendix A. In total, seven soil samples were analyzed for TCE, 1,2-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, BTEX and MTBE in accordance with US EPA Method 8260. Laboratory analytical results are summarized in Table 3, and a laboratory report is included in Appendix B.

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Using a Geoprobe™ 6610 equipped with hollow stem augers, soil borings SB-1, SB-2, SB-5 were converted to monitoring wells MW-20, MW-21 and MW-22. Each well was constructed with 2 -inch diameter polyvinyl chloride (PVC) 10 slot well screen and sand pack surrounding the well screen. The sand pack was installed to within 1 feet of the asphalt surface. 6-inches of bentonite pellets mixed with sand was placed above the sand pack and then the well was completed with a road box set in concrete and a locking J-plug. Soil boring and well construction logs are presented in Appendix A. Soil cuttings from pre-clearing and the installation of monitoring wells were placed in a drum for off Site disposal.

On November 24, 2010, Kleinfelder personnel developed MW-20, MW-21 and MW-22 by purging three to five well volumes of water using disposable polyethylene bailers. Purged water from well development was placed in a drum for off Site disposal.

On December 7, 2010, Kleinfelder personnel gauged the depth to water and collected groundwater samples from MW-20, MW-21, and MW-22. After gauging, each well was purged and sampled using disposable polyethylene bailers. Groundwater samples were transferred to two 40 ml glass vials containing hydrochloric acid preservative. The sample containers were placed in an ice-filled cooler and delivered to American Analytical Laboratories of Farmingdale, New York for analysis of TCE, 1,2-dichloroethane, cis- 1,2-dichlorothene, trans-1,2 dichloroethene and VC in accordance with USEPA Method 8260. Laboratory analytical results are summarized in Table 2, and a laboratory report is included in Appendix B.

5.1 Groundwater Elevations

On December 10, 2010, Kleinfelder personnel supervised Control Point Associates (CPA) who was contracted by Kleinfelder to survey the top of casing elevation and location of newly installed monitoring wells MW-20, MW-21 and MW-22. In addition CPA re-surveyed the top of casing elevations of MW-B, MW-6, MW-8, MW-9, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, recovery well RW-1, RW-2 and RW-

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3. All the wells were surveyed to a United States (US) Geological Survey Geodetic datum and elevations relative to mean sea level. A groundwater elevation and contour map of groundwater elevations measured on December 7, 2010, while the groundwater recovery system was in operation, is presented in Figure 5. Groundwater flow direction beneath the Site was interpreted to flow in a south-southeast direction with an average gradient of 0.020 foot /foot.

6.0 RESULTS

The following sections discuss the remediation and investigation activities.

6.1 CVOC Excavation

A total of seven soil endpoint samples were collected from the bottom of the CVOC excavation. The soil sample locations were selected based on observed soil conditions and indications of staining and odor favoring areas along the north, east and west side of the excavation. The area in the south and southeast corner of the excavation had dark colored soils that emitted an odor and samples were not collected.

During the excavation activities, groundwater was encountered in the excavation at an approximate depth of 3 fbg. At a depth of approximately 2.5 to 3 fbg, soils along the south and east side of the excavation as well as in the area of MW-14 exhibited staining and odor. Groundwater encountered in the south-east corner of the excavation exhibited a petroleum sheen and odor. Fill material (soils) removed from the excavation from just below the asphalt layer to approximately 1 to 1.5 fbg did not exhibit a petroleum odor or exhibit staining. The fill material consisted primarily of RCA, mixed with sand, silts and some gravel.

Laboratory analytical results of the seven endpoint soil samples: EP-1, EP-3, EP-5, EP-6, EP- 7 and EP-8 reported concentrations of the following compounds:

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- Cis-1,2 dichlorethene – concentrations ranged from non-detect to 0.75 milligrams (mg/kg).
- Trans-1,2 dichloroethene – concentrations ranged from non-detect to 0.0038 mg/kg (estimated).
- TCE – concentrations ranged from non-detect to 0.044 mg/kg.
- VC – concentrations ranged from non-detect to 0.56 mg/kg (estimated).
- Benzene – concentrations ranged from non-detect to 0.015 mg/kg.
- Toluene – concentrations ranged from 0.0009 (estimated) to 0.55 mg/kg.
- Ethylbenzene – concentrations ranged from 0.0009 (estimated) to 0.89 mg/kg.
- Xylenes – concentrations ranged from non-detect to 0.0041 mg/kg to 2.0 mg/kg.
- MTBE – concentrations ranged from non-detect to 0.0098 mg/kg.

Concentrations of 1,2-dichloroethane were not detected in the six soil samples.

Analytes that exceeded the NYSDEC soil clean up objectives (SCO) for unrestricted use included:

- Cis-1,2 dichloroethene – 0.75 mg/kg in EP-7;
- VC – 0.56 mg/kg (estimated) in EP-7; and
- Xylenes 0.68 mg/kg in EP-6 and 2 mg/kg in EP-8.

Laboratory analytical results are summarized in Table 1, and graphically presented in Figure 4. A laboratory report is included in Appendix B.

6.2 Discrete Groundwater Profiling Results

A total of 23 discrete groundwater samples were collected from seven locations and analyzed for TCE, 1, 2-dichloroethane, cis-1,2 dichloroethene , trans-1,2 dichloroethene and VC. Three groundwater samples were also collected from the shallow monitoring wells MW-20, MW-21 and MW-22 and analyzed from the same constituents.

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The depths of the discrete groundwater samples varied between locations to compensate for the varying depth of the organic peat layer. As noted previously, the depths selected were based on peat deposits recorded in boring logs prepared from borings and/or wells adjacent to each DS location. The maximum depth that groundwater samples were collected from each location is as follows:

- DS-1, 23-25 fbg
- DS-2, 23-26 fbg
- DS-3: 19-22 fbg
- DS-4: 29-32 fbg
- DS-5: 29-32 fbg
- DS-6: 20-21 fbg
- DS-7: 19-21 fbg

Presented in Table 2 is a summary of the groundwater analytical data reported for each of the 23 sample depths. Analytical results are also presented graphically, in Figures 3, 3A, 3B, 3C and 3D.

One compound; 1,2-dichloroethane was not detected in any of the samples analyzed.

Analytical results of cis-1,2 dichloroethene, trans-1,2 dichloroethene, TCE and VC measured in each groundwater sample indicate that greatest total concentrations of CVOCs occurred in samples collected from DS-6 and DS-7. Both locations are located in the CVOC source area adjacent to MW-14.

In addition, discrete sampling location DS-1 is situated west of RW-1, and DS-2 and DS-3 are situated in the alleyway east of RW-1 and adjacent to MW-16 and MW-19. DS- 4 and DS-5 are adjacent to MW-18 and MW-15; respectively.

The following information summarizes the results of discrete groundwater sampling for each location by listing the range of concentrations for each compound and the depth of the greatest concentration.

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- DS-1; compounds detected were cis-1,2 dichloroethene, TCE and VC. The concentrations of cis-1,2-dichloroethene ranged from 68 micrograms per liter (ug/l) to 230 ug/l at 8 to 10 fbg. TCE concentrations ranged from 190 ug/l to 4,300 ug/l at 8 to 10 fbg. VC concentrations ranged from non-detect to 28 ug/l at 8 to 10 fbg.
- DS-2: compounds detected were cis-1,2 dichloroethene, trans-1,2 dichloroethene, TCE and VC. The concentrations of cis-1,2-dichloroethene ranged from 24 ug/l to 3,100 ug/l at 9 to 12 fbg. Trans-1,2 dichloroethene ranged from non-detect to 16 ug/l at 9 to12 fbg. TCE concentrations ranged from 14 ug/l to 110 ug/l at 9 to12 fbg. VC concentrations ranged from non-detect to 710 ug/l at 9 to12 fbg.
- DS-3: compounds detected were cis-1,2 dichloroethene, trans-1,2 dichloroethene, TCE and VC. The concentrations of cis-1,2-dichloroethene ranged from 51 ug/l to 3,600 ug/l at 13 to 16 fbg. Trans-1,2 dichloroethene ranged from non-detect to 15 ug/l at 13 to 16 fbg. TCE concentrations ranged from 20 ug/l to 47 ug/l at 13 to 16 fbg. VC concentrations ranged from non-detect to 460 ug/l at 13 to 16 fbg.
- DS-4: compounds detected were cis-1,2 dichloroethene and TCE. The concentrations of cis-1,2-dichloroethene ranged from non-detect to 6.3 ug/l at 9 to 12 fbg. TCE concentrations ranged from 14 ug/l to 180 ug/l at 4 to 7 fbg.
- DS-5: compounds detected were cis-1,2 dichloroethene and TCE. The concentrations of cis-1,2-dichloroethene ranged from non-detect to 5.5 ug/l at 19 to 22 fbg. TCE concentrations ranged from 29 ug/l to 620 ug/l at 19 to 22 fbg.
- DS-6: compounds detected were cis-1,2 dichloroethene, trans-1,2 dichloroethene, TCE and VC. The concentrations of cis-1,2-dichloroethene ranged from 680 ug/l to 150,000 ug/l at 5 to 6 fbg. Trans-1,2 dichloroethene ranged from 2.6 to 310 ug/l at 5 to6 fbg. TCE concentrations ranged from non-detect to 31 ug/l at 20 to 21 fbg. VC concentrations ranged from 450 ug/l to 100,000 ug/l at 5 to 6 fbg.
- DS-7: compounds detected were cis-1,2 dichloroethene, trans-1,2 dichloroethene, TCE and VC. The concentrations of cis-1,2-dichloroethene ranged from 29,000 ug/l to 340,000 ug/l at 9 to 11 fbg. Trans-1,2 dichloroethene ranged from 56 to 680 ug/l at 9 to 11 fbg. TCE concentrations ranged from 62,000 ug/l to 770,000 ug/l at 4 to 6 fbg. VC concentrations ranged from 2,900 ug/l to 75,000 ug/l at 9 to11 fbg.

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Analytical results of groundwater samples collected from shallow wells MW-20, MW-21 and MW-22 are the following:

- MW-20: compounds detected were cis-1,2 dichloroethene and VC. Concentration of cis-1,2 dichloroethene was 6.9 ug/l. Concentration of VC was 8 ug/l.
- MW-21: compounds detected were cis-1,2 dichloroethene, trans-1,2 dichloroethene and VC. Concentration of cis-1,2 dichloroethene was 2,800 ug/l. Concentration of trans-1,2 dichloroethene was 32 ug/l. Concentration of VC was 6,400 ug/l.
- MW-22: compounds detected were cis-1,2 dichloroethene and VC. Concentration of cis-1,2 dichloroethene was 110 ug/l. Concentration of VC was 730 ug/l.

Analytical results of the discrete groundwater samples and groundwater samples from MW-20, MW-21 and MW-22 are summarized in Table 2 and presented graphically in Figures 3, 3A, 3B, 3C and 3D.

Analytical results of soil samples collected from soil borings SB-1 (MW-20), SB-2 (MW-21), SB-3, SB-4 and SB-5 (MW-22) are summarized as follows:

- SB-3: analytical results of detected CVOCs in soil samples collected from a depth of 3 to 5 fbg reported concentrations of 1,2 dichloroethane (0.84 mg/kg), cis-1,2 dichloroethene (160 mg/kg), trans-1,2 dichloroethene (0.59 mg/kg estimated), TCE (6,100 mg/kg), and VC (1.5 mg/kg).
- SB-4: analytical results of detected CVOCs in soil samples collected from a depth of 4 to 7 fbg reported concentrations of cis-1,2 dichloroethene (41 mg/kg) and TCE (1,600 mg/kg).
- MW-20: analytical results of detected CVOCs in two soil samples; one collected at 3 to 4.5 fbg reported a concentration of cis-1,2 dichloroethene (0.35 mg/kg estimated). The soil sample collected at 4.5 to 6.5 fbg reported no detections of CVOCs.

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- MW-21: analytical results of detected CVOCs in one soil sample collected at 5.5 to 6.5 fbg reported a concentration of cis-1,2 dichloroethene (24 mg/kg) and VC (36 mg/kg).
- MW-22: analytical results of detected CVOCs in two soil samples; one collected at 2-3 fbg reported a concentration of cis-1,2 dichloroethene (0.022 mg/kg), TCE (0.018 mg/kg), VC (0.0015 estimated). Soil sample collected at 6 to 7 fbg reported no detections of CVOCs.

Analytical results of soil samples collected from soil borings SB-1 (MW-20), SB-2 (MW-21), SB-3, SB-4 and SB-5 (MW-22) are summarized in Table 3.

6.0 CONCLUSIONS

The following is a summary of CVOC excavation and delineation activities conducted at Commander Oil Terminal, located at One Commander Square, Oyster Bay, New York.

On October 12, 2010, American Environmental excavated and removed approximately 58 tons of contaminated soils from the area adjacent to MW-14 and MW-17 as part of the CVOC source area remediation.

Kleinfelder collected six soil endpoint samples for analysis to further delineate the CVOC contamination around the excavated area. Laboratory analytical results of the soil endpoint samples indicate that CVOC concentrations at depth ranging from 2 to 2.5 fbg are within NYSDEC SCOs with the exception of soils in the area of EP-7 that reported concentrations of cis-1,2 dichloroethene and VC above NYSDEC SCOs for unrestricted use. Based on the soil sampling results, impacted soil containing CVOCs still exist below the depth of 2.5 fbg.

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Discrete groundwater sampling results indicate that primary concentrations of dissolved phase concentrations of CVOCs are located in the area of MW-14 (source area). Based on the findings of the discrete groundwater sampling, the horizontal and vertical delineation of TCE, 1,2-dichloroethane, cis-1,2 dichloroethene, trans-1,2 dichloroethene and VC in groundwater has been largely completed in the eastern downgradient area of the Site.

Maximum concentrations of TCE in DS-1 located on the southern portion of the Site were detected above the peat. TCE was delineated to a depth of 25 fbg in DS-1. TCE concentrations in groundwater samples (DS-2 and DS-3) collected in the alleyway adjacent to MW-16 and MW-19 have been delineated to a vertical depth of 26 fbg, with a maximum concentration of (110 ug/l) in 9 to 12 foot depth above the peat.

TCE concentrations in groundwater (DS-4 and DS-5) adjacent to MW-15 and MW-18 have been delineated below the peat layer to 32 fbg with concentrations of 14 ug/l and 36 ug/l; respectively. Maximum TCE concentrations were detected above the peat layer in DS-4 (180 ug/l) and below the peat layer in DS-5 (620 ug/l).

In the source area, TCE concentrations in groundwater (DS-6, DS-7, MW-20, MW-21 and MW-22) exist both above and below the peat layer in the area around MW-14. The vertical extent of TCE in the area of DS-7 has not been fully delineated. TCE in the shallow aquifer above the peat layer along the north property line is delineated with respect to non-detect concentrations.

Similar distribution and spatial extent of the dissolved-phase analytes apply to VC, cis and trans-1,2 dichlorethene in groundwater in the location of MW-14. These compounds were detected both above and below the peat layer and vertical delineation is incomplete in the area of DS-7. Horizontal and vertical delineation of TCE, VC, cis-1,2 dichloroethene and trans-1,2 dichloroethene has been completed for the area in the

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alleyway. Horizontally these compounds appear to be limited to the area between and including MW-19 and RW-1 and primarily above the peat layer.

In addition to this assessment, previous assessment activities in 2008 performed by ECS included groundwater sampling of on-Site monitoring wells that included MW-3 and MW-4 located west and east of the source area; respectively. MW-3 is approximately 12 fbg, and MW-14 is approximately 14 fbg and both wells are screened above the peat layer. The 2008 groundwater analytical results from MW-3 and MW-4 did not detect concentrations of TCE, VC, cis-1,2 dichloroethene and trans-1,2 dichloroethene or 1,2-dichloroethane at or above the laboratory reporting limits. Based on this information the horizontal delineation CVOCs to the east and west of the source area is complete.

Based on the results of this assessment and focus on the distribution of compounds, groundwater flow direction is in a south-southeast direction, there is a hydraulic influence on groundwater flow created by the existing groundwater recovery system as evidence by the distribution of CVOCs and hydraulic gradient. A groundwater elevation and contour map based on groundwater gauging measurements collected on December 7, 2010 (RW-1 in operation) is provided as Figure 5.

7.0 Recommendations

- Perform additional vertical delineation of CVOCs in the area of the excavation (source area) and DS-7. Install two deep monitoring wells screened below the peat layer in the area of DS-7. One well should be screened at a depth of approximately 10 to 15 fbg, and the other at a depth of 25 to 30 fbg. These two wells will be used to confirm dissolved- phase concentrations of CVOCs at depth beneath the source area.
- Continue with quarterly monitoring of TCE, VC, 1,2-dichloroethane, cis-1,2-dichloroethene, and trans-1,2-dichloroethene in groundwater with the collection of groundwater samples from MW-B, MW-6, MW-14, MW-15, MW-16, MW-17,

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MW-18, MW-19, RW-1, and RW-3. Add MW-3, MW-4, MW-9, MW-20, MW-21 and MW-22 to the quarterly sampling program.

A meeting with the NYSDEC Case Manager is scheduled for February 2011 to discuss the findings of this assessment and evaluate interim remedial action(s) with regards to remediation of CVOCs in the source area.

REFERENCES

Franke, O.L., and Cohen, Phillip, Regional Rates of Ground-Water Movement on Long Island, New York, United States Geological Survey Professional Paper 800-C, 1972.

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New York State Department of Environmental Conservation, Part 375-6: Remedial Program Soil Cleanup Objectives, December 14, 2006.

United States Geological Survey (USGS), 7.5-Minute Series Topographic Map of the Bayville New York Quadrangle, photorevised 1979.

New York State Department of Environmental Conservation CP-51 / Soil Cleanup Guidance, October 21, 2010.

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Sincerely,
Kleinfelder East, Inc.

Richard Swedborg
Senior Project Manager

Zachary R.Halsey
Environmental Scientist

Attachment

Copy: William Schaefer
File

"Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that Commander Oil Terminal, LLC has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. Commander Oil Terminal, LLC is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. Commander Oil Terminal, LLC is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services."

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LIST OF TABLES, FIGURES AND APPENDICES

TABLES

FIGURES

APPENDICES

TABLES

Table 1
SOIL ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS

Commander Oil Terminal
One Commander Square
Oyster Bay, New York
October 12, 2010

SAMPLE ID		EP-1, 2-2.5'	EP-3, 2-2.5'	EP-5, 1.5-2'	EP-6, 2-2.5'	EP-7, 2-2.5'	EP-8, 2-2.5'
SAMPLE DEPTH (fbg)		2' - 2.5'	2' - 2.5'	1.5' - 2'	2' - 2.5'	2' - 2.5'	2' - 2.5'
SAMPLE DATE		10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010
PARAMETER	375-6.8(a): Unrestricted Use Soil Cleanup Objectives (mg/kg)						
Benzene	**0.06**	0.015	0.0062 J	<0.0053	<0.71	0.0035 J	<0.72
Ethylbenzene	**1**	0.025	0.0094	0.001 J	0.28 J	0.0029 J	0.89
Toluene	**0.7**	0.072	0.016	0.0009 J	0.14 J	0.011	0.55 J
Total Xylenes	**0.26**	0.0226	0.04	0.0041 J	0.68 J	0.0131	2
MTBE	**0.93**	<0.0052	0.0098	<0.0053	<0.71	<0.006	<0.72
1,2-Dichloroethane	**0.02**[c]	<0.0053	<0.0062	<0.0053	<0.71	<0.0062	<0.72
cis-1,2-Dichloroethene	**0.25**	0.0065	0.0055 J	<0.0053	<0.71	0.75	0.19 J
trans-1,2-Dichloroethene	**0.19**	<0.0053	<0.0062	<0.0053	<0.71	0.0038 J	<0.72
Trichloroethene	**0.47**	<0.0053	<0.0062	<0.0053	<0.71	0.044	<0.72
Vinyl chloride	**0.02**	<0.0053	<0.0062	<0.0053	<0.71	0.56 J	<0.72
Percent Moisture (wt%)	**N/A**	6.39	19.3	6.99	11.6	19.9	13.6

Notes:
<1.0 - Not detected at or above the laboratory reporting limit shown
c - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.
fbg - feet below grade
J - Analyte detected below quantitation range
Laboratory values and soil cleanup objectives (SCOs) are in milligrams per kilograms
N/A - Not applicable
Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

Subpart 375-6: Remedial Program Soil Cleanup Objectives, (Environmental Conservation Law (ECL) article 1, section 0101; ECL article 27, titles 13 and 14; ECL article 52, title 3; ECL article 56, title 5; ECL article 71, title 36; ECL article 3, section 0301; chapter 1, laws of 2003; chapter 577, laws of 2004 and State Finance Law article 6, section 97-b), [Effective December 14, 2006]

Table 2
GROUNDWATER ANALYTICAL DATA
CHLORINATED VOLATILE ORGANIC COMPOUNDS

Commander Oil Terminal
One Commander Square
Oyster Bay, New York
November 18, 2010

SAMPLE ID		DS-6, 5-6'	DS-6, 10-11'	DS-6, 20-21'	DS-7, 4-6'	DS-7, 9-11'	DS-7, 19-21'	DS-1, 8-10'
SAMPLE DEPTH (fbg)		5 - 6'	10 - 11'	20 - 21'	4 - 6'	9 - 11'	19 - 21'	8 - 10'
SAMPLE DATE		11/18/2010	11/18/2010	11/18/2010	11/18/2010	11/18/2010	11/18/2010	11/18/2010
PARAMETER	NYSDEC STANDARDS (ug/L)							
1,2-Dichloroethane	**0.6**	<1.0	<1.0	<1.0	<10	<1.0	<10	<1.0
cis-1,2-Dichloroethene	**5**	150000	680	2700	76000	340000	29000	230
trans-1,2-Dichloroethene	**5**	310	2.6	14	330	680	56	<1.0
Trichloroethene	**5**	5.4	<1.0	31	770000	62000	200000	4300
Vinyl chloride	**2**	100000	450	1300	4700	75000	2900	28

Notes:
~ - The NYSDEC has not established a standard or guidance value
<1.0 - Not detected at or above the laboratory reporting limit shown
µg/L - micrograms per liter (parts per billion)
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000
Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)
Data Qualifier
J - Analyte detected below quantitation limits

Table 2
GROUNDWATER ANALYTICAL DATA
CHLORINATED VOLATILE ORGANIC COMPOUNDS

Commander Oil Terminal
One Commander Square
Oyster Bay, New York
November 19, 2010

SAMPLE ID		DS-1, 16-18'	DS-1, 23-25'	DS-5, 7-9'	DS-5, 10-13'	DS-5, 19-22'	DS-5, 29-32'	DS-4, 4-7'	DS-4, 9-12'
SAMPLE DEPTH (fbg)		16 - 18'	23 - 25'	7 - 9'	10 - 13'	19 - 22'	29 - 32'	4 - 7'	9 - 12'
SAMPLE DATE		11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010
PARAMETER	NYSDEC STANDARDS (ug/L)								
1,2-Dichloroethane	**0.6**	<10	<10	<1.0	<1.0	<1.0	<1.0	<50	<1.0
cis-1,2-Dichloroethene	**5**	68	79	1.5	<1.0	5.5	5.4	<50	6.3
trans-1,2-Dichloroethene	**5**	<10	<10	<1.0	<1.0	<1.0	<1.0	<50	<1.0
Trichloroethene	**5**	350	190	<1.0	29	620	36	180	54
Vinyl chloride	**2**	<10	<10	<1.0	<1.0	<1.0	<1.0	<50	<1.0

SAMPLE ID		DS-4, 19-22'	DS-4, 29-32'	DS-2, 9-12'	DS-2, 15-18'	DS-2, 23-26'	DS-3, 5-8'	DS-3, 13-16'	DS-3, 19-22'
SAMPLE DEPTH (fbg)		19 - 22'	29 - 32'	9 - 12'	15 - 18'	23 - 26'	5 - 8'	13 - 16'	19 - 22'
SAMPLE DATE		11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010	11/19/2010
PARAMETER	NYSDEC STANDARDS (ug/L)								
1,2-Dichloroethane	**0.6**	<1.0	<1.0	<10	<10	<1.0	<10	<1.0	<1.0
cis-1,2-Dichloroethene	**5**	1.4	<1.0	3100	1400	24	<10	3600	51
trans-1,2-Dichloroethene	**5**	<1.0	<1.0	16	<10	<1.0	<10	15	<1.0
Trichloroethene	**5**	54	14	110	59	14	<10	47	20
Vinyl chloride	**2**	<1.0	<1.0	710	180	<1.0	<10	460	<1.0

Notes:
~ - The NYSDEC has not established a standard or guidance value
<1.0 - Not detected at or above the laboratory reporting limit shown
µg/L - micrograms per liter (parts per billion)
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000
Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)
Data Qualifier
J - Analyte detected below quantitation limits

Table 2
GROUNDWATER ANALYTICAL DATA
CHLORINATED VOLATILE ORGANIC COMPOUNDS

Commander Oil Terminal
One Commander Square
Oyster Bay, New York
December 7, 2010

SAMPLE ID		MW-20	MW-21	MW-22
SAMPLE DEPTH (fbg)		2 - 7'	2 - 7'	2 - 7'
SAMPLE DATE		12/7/2010	12/7/2010	12/7/2010
PARAMETER	NYSDEC STANDARDS (ug/L)			
1,2-Dichloroethane	**0.6**	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**5**	6.9	2800	110
trans-1,2-Dichloroethene	**5**	<1.0	32	<1.0
Trichloroethene	**5**	<1.0	<1.0	<1.0
Vinyl chloride	**2**	8	6400	730

Notes:
~ - The NYSDEC has not established a standard or guidance value
<1.0 - Not detected at or above the laboratory reporting limit shown
µg/L - micrograms per liter (parts per billion)
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000
Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)
Data Qualifier
J - Analyte detected below quantitation limits

Table 3
SOIL ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS

Commander Oil Terminal
One Commander Square
Oyster Bay, New York
November 22, 2010

SAMPLE ID		MW-22, 2-3'	MW-22, 6-7'	MW-21, 5.5-6.5'	MW-20, 3-4.5'	MW-20, 4.5-6.5'	SB-4, 4-7'	SB-3, 3-5'
SAMPLE DEPTH (fbg)		2' - 3'	6' - 7'	5.5' - 6.5'	3' - 4.5'	4.5' - 6.5'	4' - 7'	3' - 5'
SAMPLE DATE		11/22/2010	11/22/2010	11/22/2010	11/22/2010	11/22/2010	11/22/2010	11/22/2010
PARAMETER	375-6.8(a): Unrestricted Use Soil Cleanup Objectives (mg/kg)							
Benzene	**0.06**	<0.0053	<0.006	0.83 J	<0.79	<0.79	<5.3	4.8
Ethylbenzene	**1**	0.0019 J	<0.006	3.4	0.06 J	0.24 J	0.99 J	15
Toluene	**0.7**	<0.0053	<0.006	6	<0.79 U	<0.79	<5.3	37
Total Xylenes	**0.26**	0.0052 J	<0.018	9.1	0.13 J	0.79 J	1.5 J	63
MTBE	**0.93**	<0.0053	<0.006	0.31 J	<0.79 U	<0.79	<5.3	<0.84
1,2-Dichloroethane	**0.02**[c]	<0.0055	<0.0061	<1.1	<0.79 U	<0.79	<5.3	<0.84
cis-1,2-Dichloroethene	**0.25**	0.022	<0.0061	24	0.35 J	<0.79	41	160
trans-1,2-Dichloroethene	**0.19**	<0.0055	<0.0061	<1.1	<0.79 U	<0.79	<5.3	0.59 J
Trichloroethene	**0.47**	0.018	<0.0061	<1.1	<0.79 U	<0.79	1600	6100
Vinyl chloride	**0.02**	0.0015 J	<0.0061	36	<0.79 U	<0.79	<5.3	1.5
Percent Moisture (wt%)	**N/A**	8.34	17.6	40.8	20.6	20.9	40.9	25.2

Notes:
<1.0 - Not detected at or above the laboratory reporting limit shown
c - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.
fbg - feet below grade
J - Analyte detected below quantitation range
Laboratory values and soil cleanup objectives (SCOs) are in milligrams per kilograms
N/A - Not applicable
Shading - Reported concentration detected above the applicable standard(s) or guidance value(s)

Subpart 375-6: Remedial Program Soil Cleanup Objectives, (Environmental Conservation Law (ECL) article 1, section 0101; ECL article 27, titles 13 and 14; ECL article 52, title 3; ECL article 56, title 5; ECL article 71, title 36; ECL article 3, section 0301; chapter 1, laws of 2003; chapter 577, laws of 2004 and State Finance Law article 6, section 97-b), [Effective December 14, 2006]

FIGURES

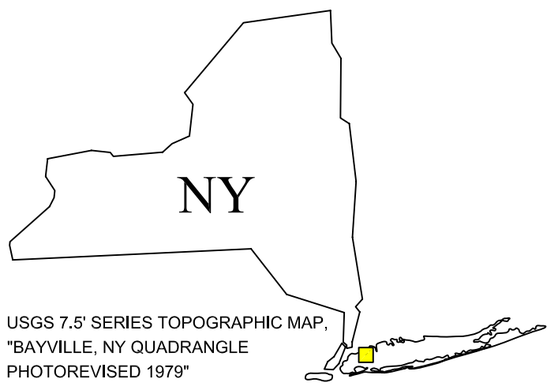
0 450 900 1,800

SCALE (feet)

N

LATITUDE: 40° 52' 31.76" N

LONGITUDE: 73° 31' 38.56" W



USGS 7.5' SERIES TOPOGRAPHIC MAP,
"BAYVILLE, NY QUADRANGLE
PHOTOREVISED 1979"

QUADRANGLE LOCATION

BOHEMIA, NY

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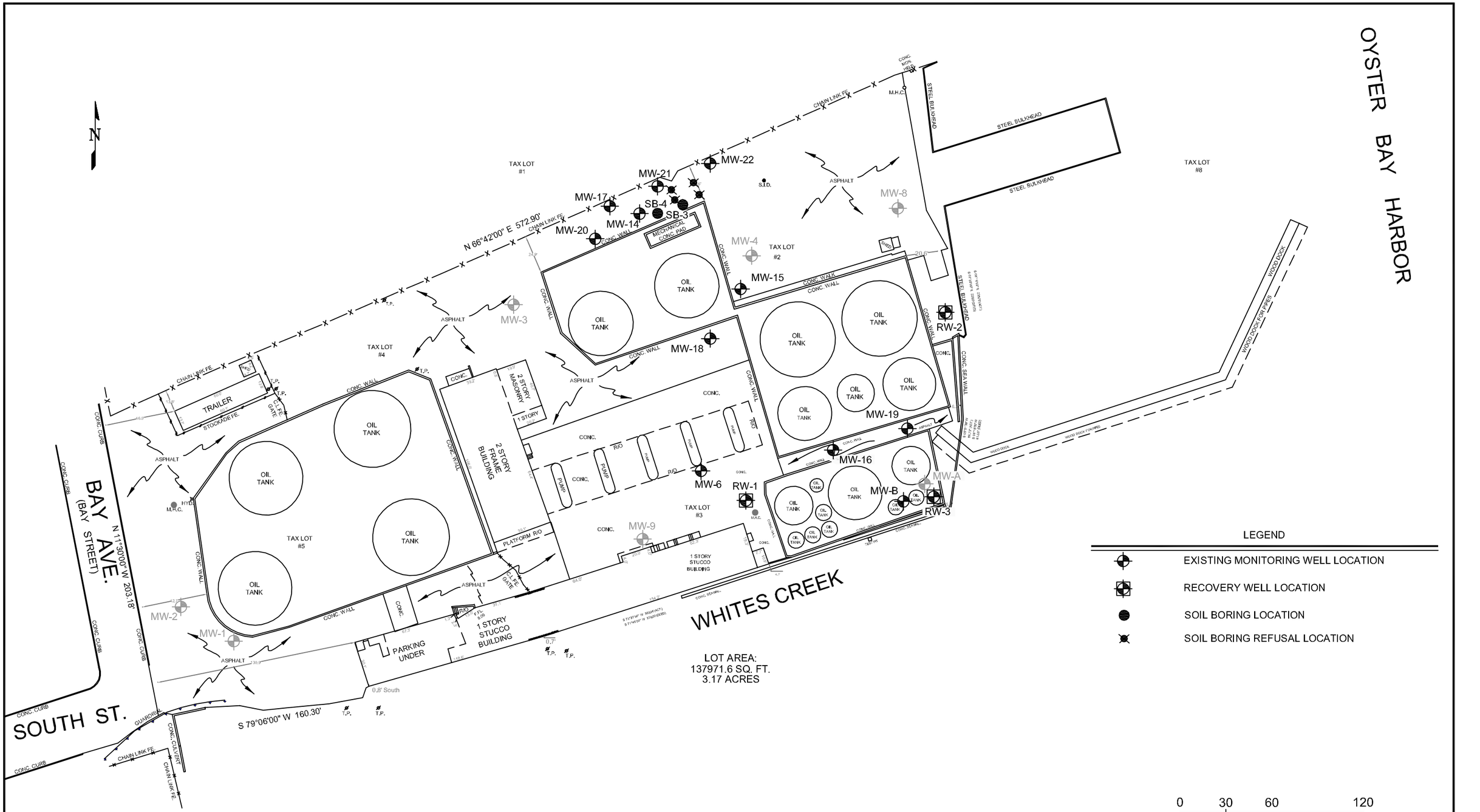
PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	
FILE NAME:	

LOCUS PLAN

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE

1



BOHEMIA, NY

NOTES:

1. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA. 3/6/2001.

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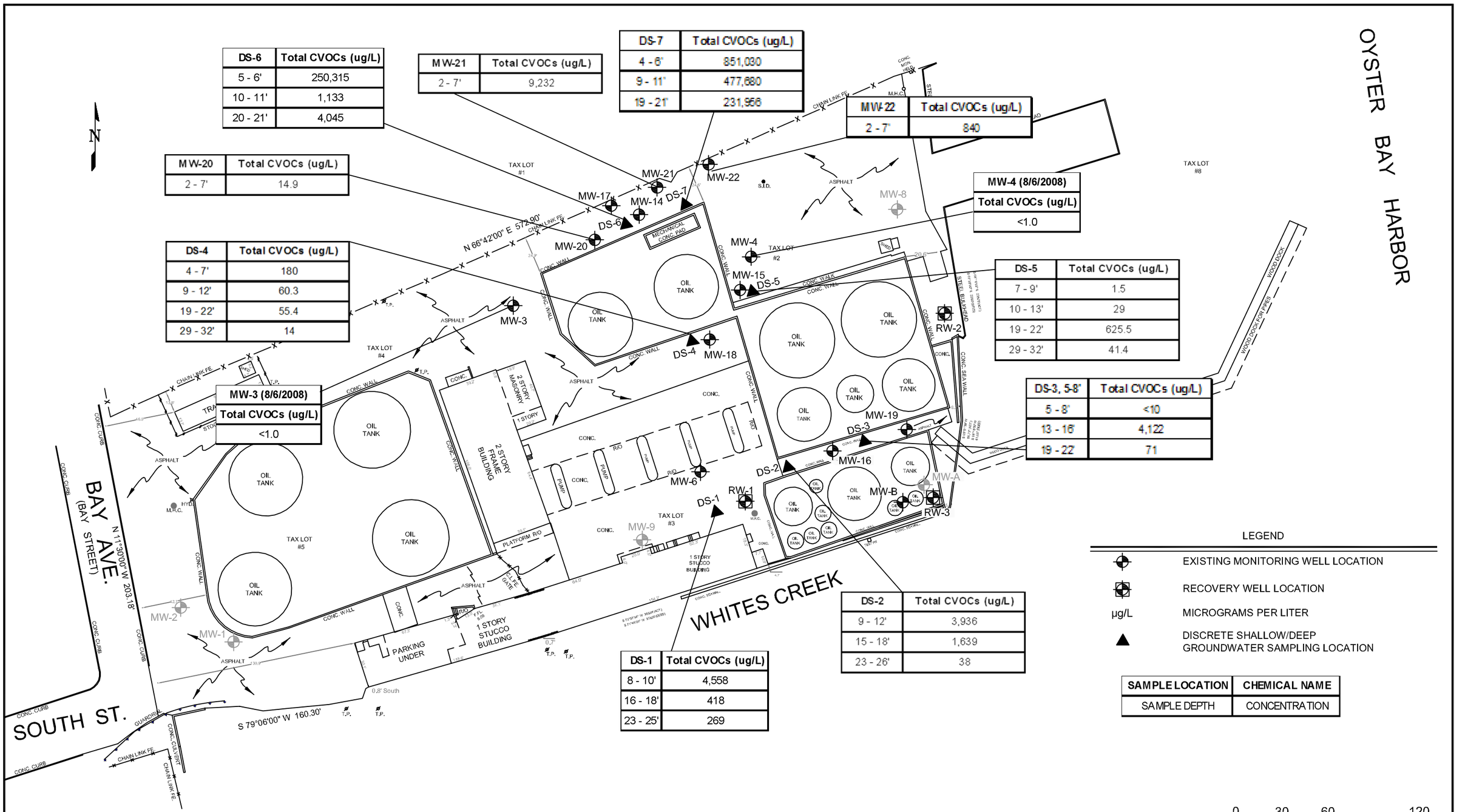
SITE MAP

COMMANDER TERMINALS
COMMANDER OIL TERMINAL
OYSTER BAY, NEW YORK

FIGURE

2



DS-6	Total CVOCs (ug/L)
5 - 6'	250,315
10 - 11'	1,133
20 - 21'	4,045

MW-21	Total CVOCs (ug/L)
2 - 7'	9,232

DS-7	Total CVOCs (ug/L)
4 - 6'	851,030
9 - 11'	477,680
19 - 21'	231,966

MW-22	Total CVOCs (ug/L)
2 - 7'	840

MW-20	Total CVOCs (ug/L)
2 - 7'	14.9

MW-4 (8/6/2008)
Total CVOCs (ug/L)
<1.0

DS-4	Total CVOCs (ug/L)
4 - 7'	180
9 - 12'	60.3
19 - 22'	55.4
29 - 32'	14

DS-5	Total CVOCs (ug/L)
7 - 9'	1.5
10 - 13'	29
19 - 22'	625.5
29 - 32'	41.4

MW-3 (8/6/2008)
Total CVOCs (ug/L)
<1.0

DS-3, 5-8'	Total CVOCs (ug/L)
5 - 8'	<10
13 - 16'	4,122
19 - 22'	71

DS-2	Total CVOCs (ug/L)
9 - 12'	3,936
15 - 18'	1,639
23 - 26'	38

DS-1	Total CVOCs (ug/L)
8 - 10'	4,558
16 - 18'	418
23 - 25'	269

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- µg/L — MICROGRAMS PER LITER
- ▲ — DISCRETE SHALLOW/DEEP GROUNDWATER SAMPLING LOCATION

SAMPLE LOCATION	CHEMICAL NAME
SAMPLE DEPTH	CONCENTRATION

0 30 60 120
SCALE (feet)

NOTES:
1. DISCRETE GROUNDWATER SAMPLES (DS) COLLECTED ON NOVEMBER 18 AND 19, 2010. GROUNDWATER SAMPLES FROM MW-21, MW-22, AND MW-23 COLLECTED ON DECEMBER 7, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. GROUNDWATER DATA FOR MW-3 AND MW-4 COLLECTED 8/6/2008 AND PRESENTED IN THE BASELINE ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED BY ENVIRONMENTAL COMPLIANCE SERVICES DATED NOVEMBER 10, 2008.

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CHECKED BY:	RS
FILE NAME:	

DISCRETE GROUNDWATER SAMPLING LOCATIONS

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
3

BOHEMIA, NY

OYSTER BAY HARBOR

N

DS-6	TRICHLOROETHENE (ug/L)
5 - 6'	5.40
10 - 11'	<1.0
20 - 21'	31

MW-21	TRICHLOROETHENE (ug/L)
2 - 7'	<1.0

DS-7	TRICHLOROETHENE (ug/L)
4 - 6'	770,000
9 - 11'	62,000
19 - 21'	200,000

MW-22	TRICHLOROETHENE (ug/L)
2 - 7'	<1.0

MW-20	TRICHLOROETHENE (ug/L)
2 - 7'	<1.0

MW-4 (8/6/2008)
Trichloroethene (ug/L)
<1.0

DS-4	TRICHLOROETHENE (ug/L)
4 - 7'	180
9 - 12'	54
19 - 22'	54
29 - 32'	14

DS-5	TRICHLOROETHENE (ug/L)
7 - 9'	<1.0
10 - 13'	29
19 - 22'	620
29 - 32'	36

MW-3 (8/6/2008)
Trichloroethene (ug/L)
<1.0

DS-3	TRICHLOROETHENE (ug/L)
5 - 8'	<10
13 - 16'	47
19 - 22'	20

DS-2	TRICHLOROETHENE (ug/L)
9 - 12'	110
15 - 18'	59
23 - 26'	14

DS-1	TRICHLOROETHENE (ug/L)
8 - 10'	4,300
16 - 18'	350
23 - 25'	190

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- µg/L — MICROGRAMS PER LITER
- ▲ — DISCRETE SHALLOW/DEEP GROUNDWATER SAMPLING LOCATION

SAMPLE LOCATION	CHEMICAL NAME
SAMPLE DEPTH	CONCENTRATION

0 30 60 120
SCALE (feet)

NOTES:
1. DISCRETE GROUNDWATER SAMPLES (DS) COLLECTED ON NOVEMBER 18 AND 19, 2010. GROUNDWATER SAMPLES FROM MW-21, MW-22, AND MW-23 COLLECTED ON DECEMBER 7, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. GROUNDWATER DATA FOR MW-3 AND MW-4 COLLECTED 8/6/2008 AND PRESENTED IN THE BASELINE ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED BY ENVIRONMENTAL COMPLIANCE SERVICES DATED NOVEMBER 10, 2008.

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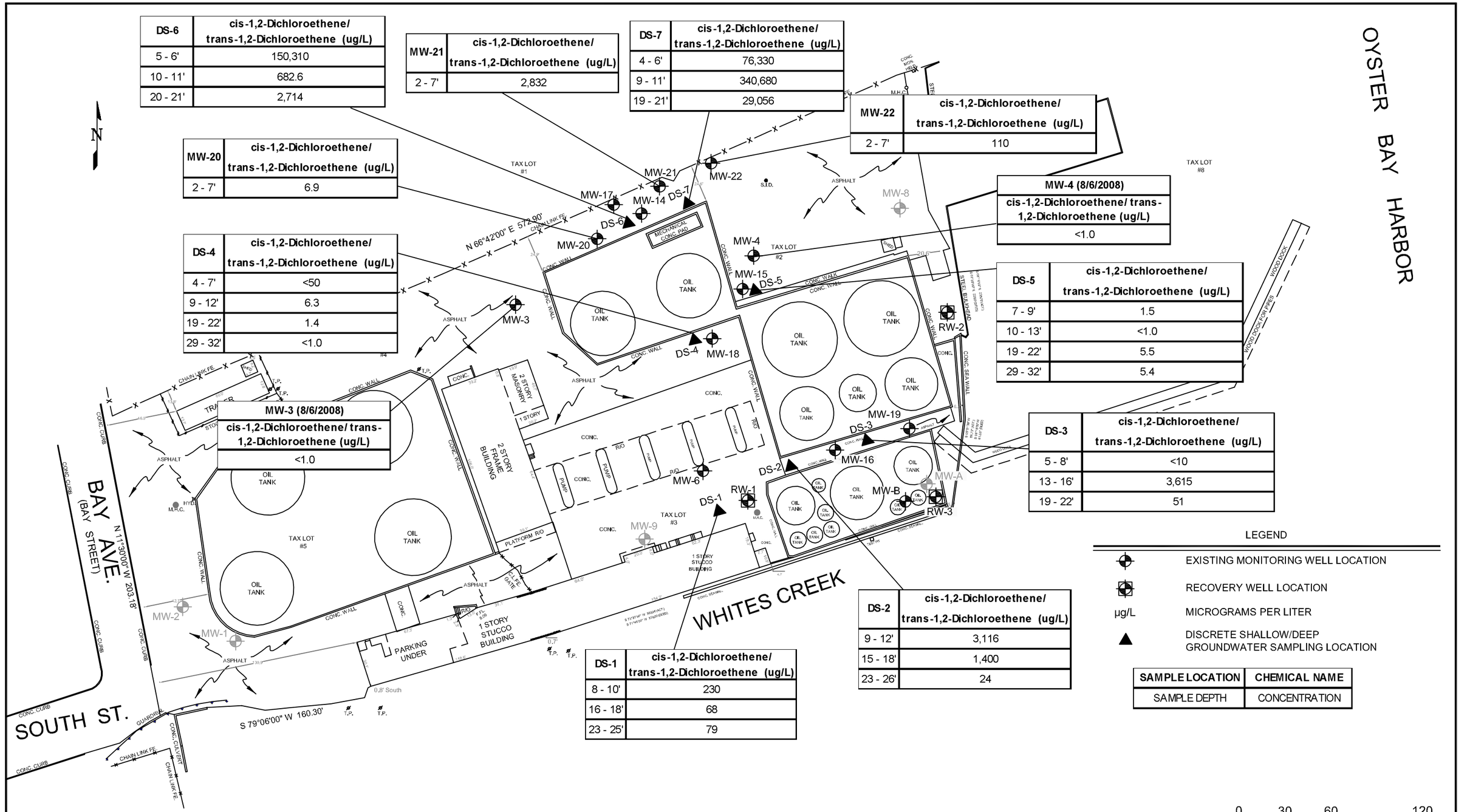
PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

DISCRETE GROUNDWATER SAMPLING RESULTS (TRICHLOROETHENE)

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
3A

BOHEMIA, NY



DS-6	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
5 - 6'	150,310
10 - 11'	682.6
20 - 21'	2,714

MW-21	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
2 - 7'	2,832

DS-7	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
4 - 6'	76,330
9 - 11'	340,680
19 - 21'	29,056

MW-22	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
2 - 7'	110

MW-20	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
2 - 7'	6.9

MW-4 (8/6/2008)
cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
<1.0

DS-4	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
4 - 7'	<50
9 - 12'	6.3
19 - 22'	1.4
29 - 32'	<1.0

DS-5	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
7 - 9'	1.5
10 - 13'	<1.0
19 - 22'	5.5
29 - 32'	5.4

MW-3 (8/6/2008)
cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
<1.0

DS-3	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
5 - 8'	<10
13 - 16'	3,615
19 - 22'	51

DS-1	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
8 - 10'	230
16 - 18'	68
23 - 25'	79

DS-2	cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene (ug/L)
9 - 12'	3,116
15 - 18'	1,400
23 - 26'	24

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- µg/L — MICROGRAMS PER LITER
- ▲ — DISCRETE SHALLOW/DEEP GROUNDWATER SAMPLING LOCATION

SAMPLE LOCATION	CHEMICAL NAME
SAMPLE DEPTH	CONCENTRATION

0 30 60 120
SCALE (feet)

NOTES:
1. DISCRETE GROUNDWATER SAMPLES (DS) COLLECTED ON NOVEMBER 18 AND 19, 2010. GROUNDWATER SAMPLES FROM MW-21, MW-22, AND MW-23 COLLECTED ON DECEMBER 7, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. GROUNDWATER DATA FOR MW-3 AND MW-4 COLLECTED 8/6/2008 AND PRESENTED IN THE BASELINE ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED BY ENVIRONMENTAL COMPLIANCE SERVICES DATED NOVEMBER 10, 2008.

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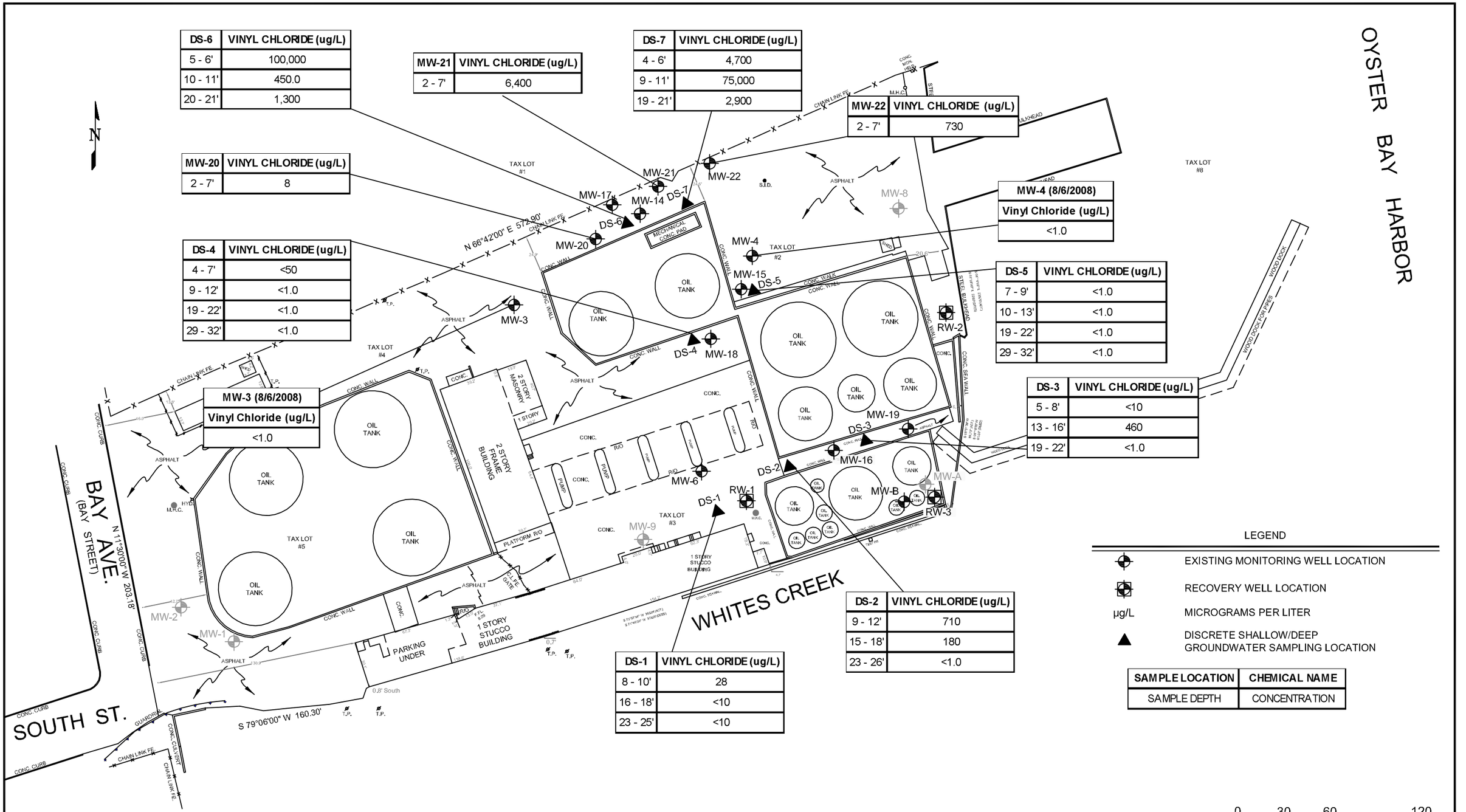
PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

DISCRETE GROUNDWATER SAMPLING RESULTS (cis-1,2-Dichloroethene/ trans-1,2-Dichloroethene)

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
3B

BOHEMIA, NY



DS-6	VINYL CHLORIDE (ug/L)
5 - 6'	100,000
10 - 11'	450.0
20 - 21'	1,300

MW-21	VINYL CHLORIDE (ug/L)
2 - 7'	6,400

DS-7	VINYL CHLORIDE (ug/L)
4 - 6'	4,700
9 - 11'	75,000
19 - 21'	2,900

MW-22	VINYL CHLORIDE (ug/L)
2 - 7'	730

MW-20	VINYL CHLORIDE (ug/L)
2 - 7'	8

MW-4 (8/6/2008)
Vinyl Chloride (ug/L)
<1.0

DS-4	VINYL CHLORIDE (ug/L)
4 - 7'	<50
9 - 12'	<1.0
19 - 22'	<1.0
29 - 32'	<1.0

DS-5	VINYL CHLORIDE (ug/L)
7 - 9'	<1.0
10 - 13'	<1.0
19 - 22'	<1.0
29 - 32'	<1.0

MW-3 (8/6/2008)
Vinyl Chloride (ug/L)
<1.0

DS-3	VINYL CHLORIDE (ug/L)
5 - 8'	<10
13 - 16'	460
19 - 22'	<1.0

DS-2	VINYL CHLORIDE (ug/L)
9 - 12'	710
15 - 18'	180
23 - 26'	<1.0

DS-1	VINYL CHLORIDE (ug/L)
8 - 10'	28
16 - 18'	<10
23 - 25'	<10

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- µg/L — MICROGRAMS PER LITER
- ▲ — DISCRETE SHALLOW/DEEP GROUNDWATER SAMPLING LOCATION

SAMPLE LOCATION	CHEMICAL NAME
SAMPLE DEPTH	CONCENTRATION

0 30 60 120
SCALE (feet)

NOTES:

1. DISCRETE GROUNDWATER SAMPLES (DS) COLLECTED ON NOVEMBER 18 AND 19, 2010. GROUNDWATER SAMPLES FROM MW-21, MW-22, AND MW-23 COLLECTED ON DECEMBER 7, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. GROUNDWATER DATA FOR MW-3 AND MW-4 COLLECTED 8/6/2008 AND PRESENTED IN THE BASELINE ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED BY ENVIRONMENTAL COMPLIANCE SERVICES DATED NOVEMBER 10, 2008.

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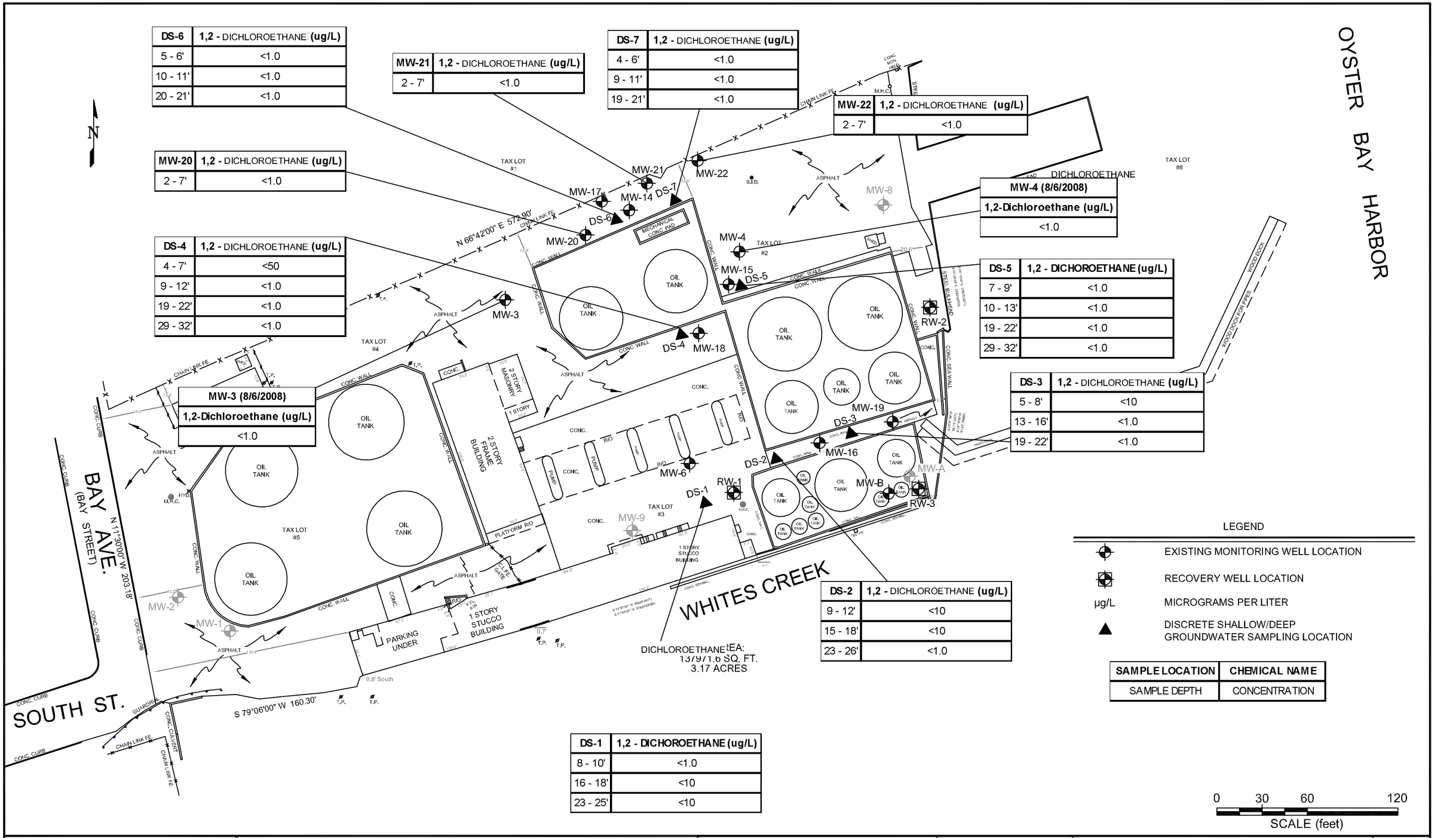
PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

DISCRETE GROUNDWATER SAMPLING RESULTS (VINYL CHLORIDE)

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
3C

BOHEMIA, NY



DS-6	1,2 - DICHLOROETHANE (ug/L)
5 - 6'	<1.0
10 - 11'	<1.0
20 - 21'	<1.0

MW-21	1,2 - DICHLOROETHANE (ug/L)
2 - 7'	<1.0

DS-7	1,2 - DICHLOROETHANE (ug/L)
4 - 6'	<1.0
9 - 11'	<1.0
19 - 21'	<1.0

MW-22	1,2 - DICHLOROETHANE (ug/L)
2 - 7'	<1.0

MW-20	1,2 - DICHLOROETHANE (ug/L)
2 - 7'	<1.0

DS-4	1,2 - DICHLOROETHANE (ug/L)
4 - 7'	<50
9 - 12'	<1.0
19 - 22'	<1.0
29 - 32'	<1.0

MW-3 (8/6/2008)
1,2-Dichloroethane (ug/L)
<1.0

MW-4 (8/6/2008)
1,2-Dichloroethane (ug/L)
<1.0

DS-5	1,2 - DICHOROETHANE (ug/L)
7 - 9'	<1.0
10 - 13'	<1.0
19 - 22'	<1.0
29 - 32'	<1.0

DS-3	1,2 - DICHLOROETHANE (ug/L)
5 - 8'	<10
13 - 16'	<1.0
19 - 22'	<1.0

DS-2	1,2 - DICHLOROETHANE (ug/L)
9 - 12'	<10
15 - 18'	<10
23 - 26'	<1.0

DS-1	1,2 - DICHOROETHANE (ug/L)
8 - 10'	<1.0
16 - 18'	<10
23 - 25'	<10

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- µg/L — MICROGRAMS PER LITER
- ▲ — DISCRETE SHALLOW/DEEP GROUNDWATER SAMPLING LOCATION

SAMPLE LOCATION	CHEMICAL NAME
SAMPLE DEPTH	CONCENTRATION

0 30 60 120
SCALE (feet)

NOTES:
1. DISCRETE GROUNDWATER SAMPLES (DS) COLLECTED ON NOVEMBER 18 AND 19, 2010. GROUNDWATER SAMPLES FROM MW-21, MW-22, AND MW-23 COLLECTED ON DECEMBER 7, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. GROUNDWATER DATA FOR MW-3 AND MW-4 COLLECTED 8/6/2008 AND PRESENTED IN THE BASELINE ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED BY ENVIRONMENTAL COMPLIANCE SERVICES DATED NOVEMBER 10, 2008.

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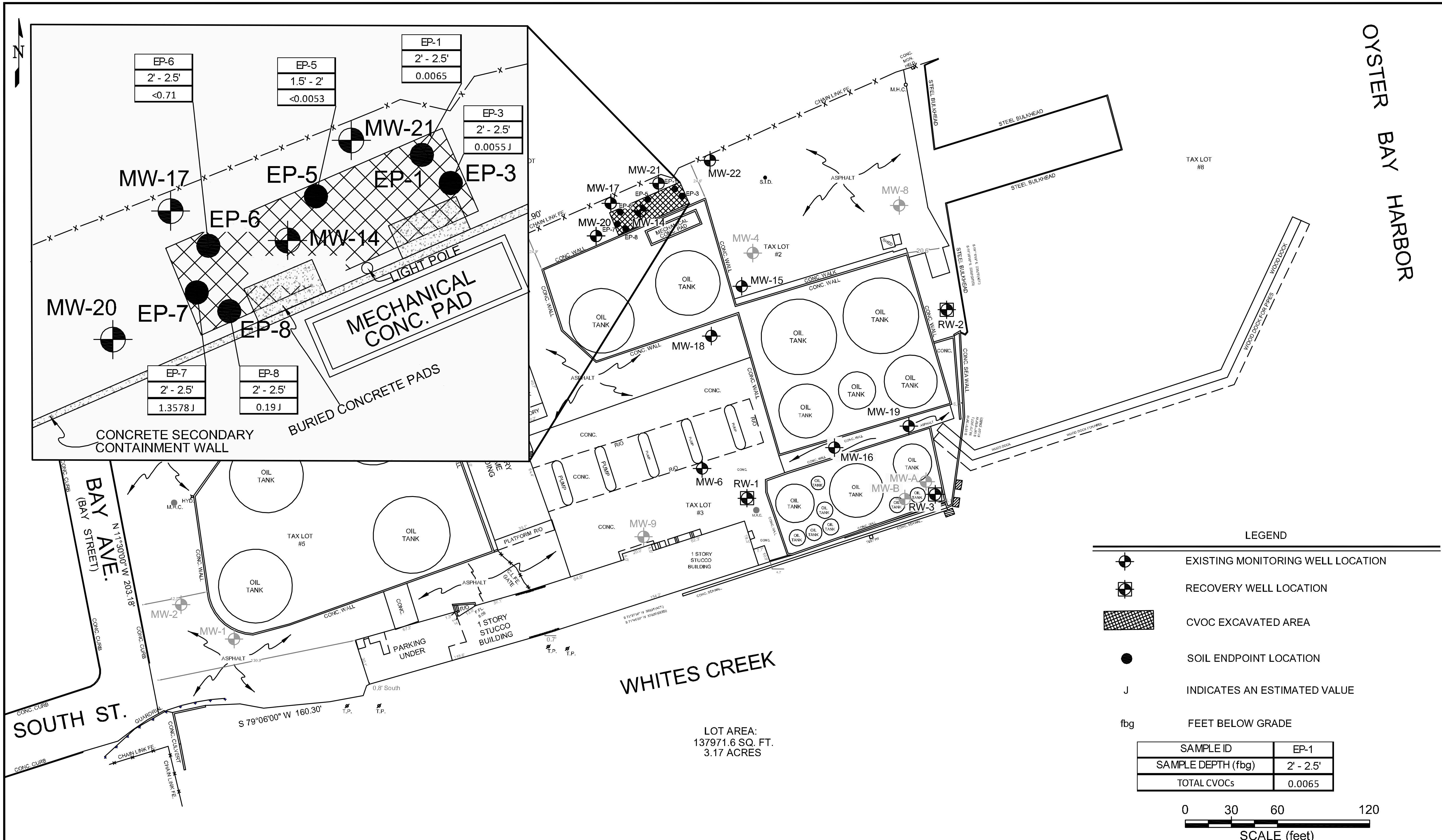
PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

DISCRETE GROUNDWATER SAMPLING RESULTS (1,2 - DICHLOROETHANE)

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
3D

BOHEMIA, NY


OYSTER BAY HARBOR
WHITES CREEK
SOUTH ST.
BAY AVE. (BAY STREET)
N 11°30'00" W 203.18'
S 79°06'00" W 160.30'
LOT AREA:
137971.6 SQ. FT.
3.17 ACRES
EP-6
2' - 2.5'
<0.71
EP-5
1.5' - 2'
<0.0053
EP-1
2' - 2.5'
0.0065
EP-3
2' - 2.5'
0.0055 J
EP-7
2' - 2.5'
1.3578 J
EP-8
2' - 2.5'
0.19 J
MW-17
MW-21
MW-14
MW-20
EP-5
EP-1
EP-3
EP-6
EP-7
EP-8
LIGHT POLE
MECHANICAL CONC. PAD
BURIED CONCRETE PADS
CONCRETE SECONDARY CONTAINMENT WALL
MW-22
MW-15
MW-18
MW-19
MW-16
MW-6
RW-1
RW-2
RW-3
MW-8
MW-4
MW-9
MW-2
MW-1
MW-A
MW-B
TAX LOT #2
TAX LOT #3
TAX LOT #5
TAX LOT #8
OIL TANK
1 STORY STUCCO BUILDING
PARKING UNDER
STEEL BULKHEAD
WOOD DOCK
WOOD DOCK FOR PIPES
CHAIN LINK FE.
CONC. WALL
ASPHALT
LEGEND
EXISTING MONITORING WELL LOCATION
RECOVERY WELL LOCATION
CVOC EXCAVATED AREA
SOIL ENDPOINT LOCATION
J INDICATES AN ESTIMATED VALUE
fbg FEET BELOW GRADE
SAMPLE ID | EP-1
SAMPLE DEPTH (fbg) | 2' - 2.5'
TOTAL CVOCs | 0.0065
0 30 60 120
SCALE (feet)

BOHEMIA, NY

NOTES:

1. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA. 3/6/2001.
2. CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

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PROJECT NO.	111556
DRAWN:	12/09/10
DRAWN BY:	JR
CHECKED BY:	
FILE NAME:	

SOIL ENDPOINT AND EXCAVATION LOCATIONS

COMMANDER TERMINALS
COMMANDER OIL TERMINAL
OYSTER BAY, NEW YORK

FIGURE 4

OYSTER BAY HARBOR

N

N 66°42'00" E 572.90'

N 11°30'00" W 203.18'

S 79°06'00" W 160.30'

BAY AVE. (BAY STREET)

SOUTH ST.

WHITES CREEK

TAX LOT #1

TAX LOT #2

TAX LOT #3

TAX LOT #4

TAX LOT #5

TAX LOT #8

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-8 MW-9 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-A MW-B

RW-1 RW-2 RW-3

5.44 5.29 5.29 5.46 3.95 4.38 4.00' 3.00' 2.00' 2.96 1.60 1.90 1.00' 0.00' 2.06 -0.24 2.99 5.00'

OIL TANK

ASPHALT

CONC. WALL

CHAIN LINK FE.

STEEL BULKHEAD

WOOD DOCK

WOOD DOCK FOR PIPES

CONC. SEA WALL

MECHANICAL CONC. PAD

2 STORY MASONRY

1 STORY

2 STORY FRAME BUILDING

1 STORY STUCCO BUILDING

PARKING UNDER

TRAILER

STOCKADE FE.

GATE

PLATFORM R/O

PUMP

CONC. CURB

CONC. CULVERT

GUARDRAIL

M.H.C.

HYD.

S.I.D.

T.P.

LOT AREA:
137971.6 SQ. FT.
3.17 ACRES

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- 5.44 GROUNDWATER ELEVATION (FEET)
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

0 30 60 120
SCALE (feet)

NOTES:
1. MW-6, MW-9, MW14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, RW-1, RW-2, RW-3, AND MW-B RESURVEYED 12/17/2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA. 3/6/2001.
3. RECOVERY SYSTEM RW-1 IN OPERATION.

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PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

GROUNDWATER ELEVATION CONTOUR MAP (12-7-2010)

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
5

BOHEMIA, NY

OYSTER BAY HARBOR

MW-17	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	1,100 ug/L
TRANS-1,2-DICHLOROETHENE	4.5 ug/L
TRICHLOROETHENE	4.4 ug/L
VINYL CHLORIDE	3,600 ug/L
TOTAL CVOCs	4,710 ug/L

MW-14	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	16,000 ug/L
TRANS-1,2-DICHLOROETHENE	150 ug/L
TRICHLOROETHENE	5,000 ug/L
VINYL CHLORIDE	10,000 ug/L
TOTAL CVOCs	31,150 ug/L

MW-18	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	<1.0 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	<1.0 ug/L
TOTAL CVOCs	<1.0 ug/L

MW-15	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	5.1 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	7.0 ug/L
TOTAL CVOCs	12.1 ug/L

RW-2	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	1.9 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	<1.0 ug/L
TOTAL CVOCs	1.9 ug/L

MW-19	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	140 ug/L
TRANS-1,2-DICHLOROETHENE	1.2 ug/L
TRICHLOROETHENE	19 ug/L
VINYL CHLORIDE	350 ug/L
TOTAL CVOCs	510 ug/L

RW-3	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	<1.0 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	<1.0 ug/L
TOTAL CVOCs	<1.0 ug/L

MW-6	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	<1.0 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	<1.0 ug/L
TOTAL CVOCs	<1.0 ug/L

RW-1	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	120 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	16 ug/L
VINYL CHLORIDE	37 ug/L
TOTAL CVOCs	173 ug/L

MW-16	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	3,500 ug/L
TRANS-1,2-DICHLOROETHENE	13 ug/L
TRICHLOROETHENE	1,700 ug/L
VINYL CHLORIDE	1,100 ug/L
TOTAL CVOCs	6,313 ug/L

MW-B	
	CONCENTRATIONS
1,2-DICHLOROETHANE	<1.0 ug/L
CIS-1,2-DICHLOROETHENE	<1.0 ug/L
TRANS-1,2-DICHLOROETHENE	<1.0 ug/L
TRICHLOROETHENE	<1.0 ug/L
VINYL CHLORIDE	<1.0 ug/L
TOTAL CVOCs	21.0 ug/L

LOT AREA:
137971.6 SQ. FT.
3.17 ACRES

LEGEND

- EXISTING MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- ug/L MICROGRAMS PER LITER

0 30 60 120
SCALE (feet)

NOTES:
1. GROUNDWATER SAMPLES COLLECTED ON OCTOBER 2, 2010.
2. DRAWING WAS REFERENCED FROM SURVEY MAP PROVIDED BY BLADYKAS & PANETTA 3/6/2001.
3. MONITORING WELLS MW-20, MW-21, AND MW-22 NOT INSTALLED AT TIME OF SAMPLING.

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PROJECT NO.	111556
DRAWN:	01/11/2011
DRAWN BY:	JR
CHECKED BY:	RS
FILE NAME:	

GROUNDWATER QUARTERLY MONITORING MAP OCTOBER 2, 2010

COMMANDER TERMINAL
ONE COMMANDER SQUARE
OYSTER BAY, NEW YORK

FIGURE
6

BOHEMIA, NY

APPENDIX A

Soil Boring/Monitoring Well Construction Logs

KLEINFELDER
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One Corporate Drive, Suite 201
Bohemia, NY 11716
(631) 218-0612

Soil Boring Log/Monitoring Well Construction Diagram

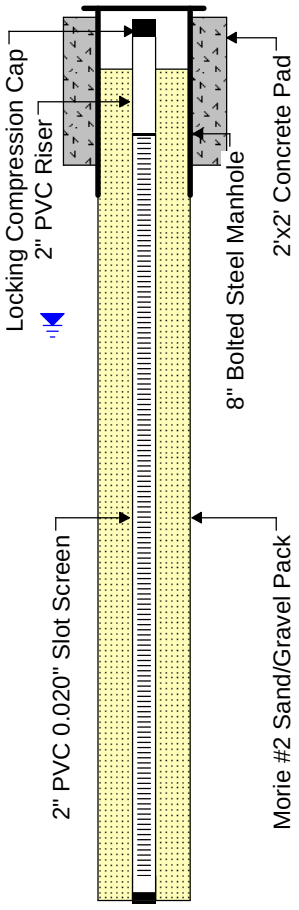
Well No. MW-20/SB-1

Project Name: Commander Oil Terminal
Site Location: 1 Commander Square, Oyster Bay, NY
Kleinfelder Project No: 111556
Client: Renaissance Property Associates
Start Date: 11/22/10
End Date: 11/22/10
Logged By (Geol.): Zachary Halsey
Checked By: Zachary Halsey

Drilling Company: AES
Driller: Ryan Jensen
Drill Rig Type: Geoprobe 6610 DT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 8 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6"
Sampling Method: Macrocore

Surface Elevation: 7.50
Initial Water Level: 2.5 fbg
Notes:

Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	Blow Counts (6-inch interval)	Sample Recovery (inches)	PID Headspace (ppmv) 0 250 500	Well Completion Details	Depth (feet)
0		Ground Surface						0
		SP-SM **Dark brown, poorly graded SAND with Silt** - Fine to medium grained SAND, some Silt, little fine gravel, moist.	0-1	NA	NA	0.0		
1		***SM*** **Dark brown, Silty SAND** - Fine to medium grained Silty SAND, crushed oyster shells throughout, odor, moist.	1-2	NA	NA	76.1		1
2		***SM*** **Grayish-brown, Silty SAND** - Fine to medium grained Silty SAND with crushed oyster shells throughout, odor, moist/wet.	2-3	NA	NA	81.7		2
3		***SM*** **Gray, Silty SAND** - Medium grained Silty SAND, some oyster shells, odor, staining, wet.	3-8	NA	48	159		3
4		***ML*** **Dark brown Sandy SILT** - Black staining with some gray layers, compacted fine grained Sandy SILT, crushed glass throughout, wet.				144		4
5		***SP*** **Brownish-gray, poorly graded SAND** - Medium to coarse grained SAND with some fine Gravel, trace silt, wet.				173		5
6		***SW*** **Gray, well-graded SAND** - Medium grained SAND, some fine Gravel, trace clay, oyster shells, odor, wet.				191		6
7		***PEAT*** **PEAT** - Brown PEAT, wet.				2.6		7
8		End of Borehole						8
9								9



BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride
Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

KLEINFELDER
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Bohemia, NY 11716
(631) 218-0612

Soil Boring Log/Monitoring Well Construction Diagram

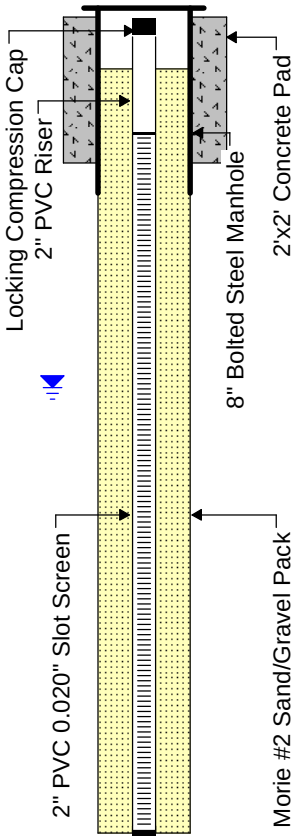
Well No. MW-21/SB-2

Project Name: Commander Oil Terminal
Site Location: 1 Commander Square, Oyster Bay, NY
Kleinfelder Project No: 111556
Client: Renaissance Property Associates
Start Date: 11/22/10
End Date: 11/22/10
Logged By (Geol.): Zachary Halsey
Checked By: Zachary Halsey

Drilling Company: AES
Driller: Ryan Jensen
Drill Rig Type: Geoprobe 6610 DT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 8 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6"
Sampling Method: Macrocore

Surface Elevation: 7.45
Initial Water Level: 3 fbg
Notes:

Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	Blow Counts (6-inch interval)	Sample Recovery (inches)	PID Headspace (ppmv) 0 2500 5000
		Ground Surface				
0		***SM*** **Dark brown, Silty SAND** - Medium grained Silty SAND, some coarse grained Sand, little fine gravel, moist.	0-1	NA	NA	0.0
1		***SM*** **Brownish-gray, Silty SAND** - Fine grained Silty SAND, trace coarse grained sand, odor, moist.	1-2	NA	NA	132
2		***ML*** **Gray Sandy SILT** - Fine grained Sandy SILT, little peat, odor, staining, wet.	2-3	NA	NA	166
3		***SM*** **Gray-brown, Silty SAND** - Mostly medium to fine grained SAND, few fine gravel, little peat.	3-8	NA	46	390
4						
5						
6		***SW*** **Gray, well-graded SAND** - Medium grained SAND, some fine grained Sand, trace peat, wet.				1,526
7		***PEAT*** **PEAT** - Brown PEAT material, some Silt, compacted, odor, wet.				38.6
8		End of Borehole				
9						



BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log/Monitoring Well Construction Diagram

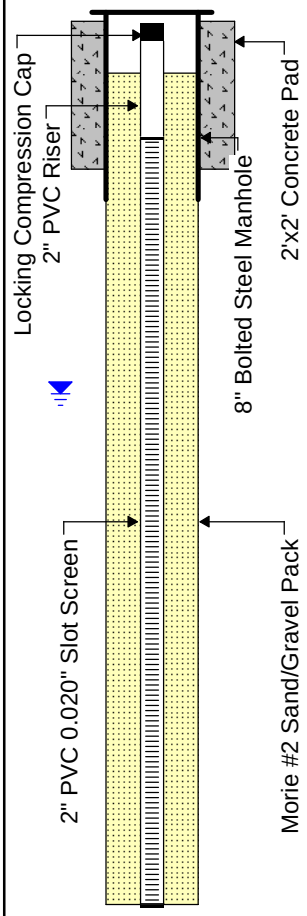
Well No. MW-22/SB-5

Project Name: Commander Oil Terminal
Site Location: 1 Commander Square, Oyster Bay, NY
Kleinfelder Project No: 111556
Client: Renaissance Property Associates
Start Date: 11/22/10
End Date: 11/22/10
Logged By (Geol.): Zachary Halsey
Checked By: Zachary Halsey

Drilling Company: AES
Driller: Ryan Jensen
Drill Rig Type: Geoprobe 6610 DT
Drilling Method: Hollow Stem Auger
Total Hole Depth: 8 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 6"
Sampling Method: Macrocore

Surface Elevation: 7.93
Initial Water Level: 3 fbg
Notes:

Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	Blow Counts (6-inch interval)	Sample Recovery (inches)	PID Headspace (ppmv) 0 250 500	Well Completion Details	Depth (feet)
0		Ground Surface						0
		SP **Dark brown, poorly graded SAND -** Medium grained SAND, some coarse grained Sand, little fine gravel, trace silt, moist.	0-1	NA	NA	0.0		
1		***SM*** **Gray, Silty SAND** - Medium grained Silty SAND, some coarse grained Sand, little fine gravel, odor, moist (soil very compacted).	1-2	NA	NA	0.0		1
2		***SP*** **Grayish-brown, poorly graded SAND** - Medium to coarse grained SAND, some coarse Gravel, odor, moist.	2-3	NA	NA	431		2
3		***SP*** **Grayish-brown, poorly graded SAND** - Medium to coarse grained SAND, some coarse Gravel, odor, wet.	3-8	NA	44			3
4								4
5		***PEAT*** **PEAT** - Light gray PEAT, some Oyster Shells, wet.						5
		PEAT **PEAT** - Black/brown PEAT mixed, trace medium grained sand, wet.						
6		***SW*** **Gray, well-graded SAND** - Medium grained SAND, trace coarse grained sand, wet.						6
7		***SW*** **Dark brown, well-graded SAND** - Black stained medium grained SAND, wet.				39.7		7
		PEAT **PEAT** - Brown PEAT, trace fine grained sand, trace silt, wet.						
8		End of Borehole						8
9								9



SUBSURFACE PROFILE | SAMPLE

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured

NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. SB-3

Project Name: Commander Oil Terminal
Site Location: 1 Commander Square, Oyster Bay, NY
Kleinfelder Project No: 111556
Client: Renaissance Property Associates
Start Date: 11/22/10
End Date: 11/22/10
Logged By (Geol.): Zachary Halsey
Checked By: Zachary Halsey

Drilling Company: AES
Driller: Ryan Jensen
Drill Rig Type: Geoprobe 6610 DT
Drilling Method: Direct Push
Total Hole Depth: 8 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2"
Sampling Method: Macrocore

Surface Elevation: NA
Initial Water Level:
Notes:

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 2500 5000	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
		Ground Surface					
0		***FILL*** **FILL** - Compacted RCA FILL	0-1	NS	NA	NA	0
1		***SM*** **Brown, Silty SAND** - Medium to coarse grained SAND, some coarse Gravel, trace brick, moist, odor.	1-2	590	NA	NA	1
2		***SM*** **Brown, Silty SAND** - Medium to coarse grained SAND, some coarse Gravel, trace brick, moist, odor.	2-3	600	NA	NA	2
3		***SP*** **Dark brown, poorly graded SAND** - Medium to coarse grained SAND with some fine Gravel and trace silt, wet, odor.	3-8	404	NA	52	3
4		***SP*** **Brown, poorly graded SAND** - Medium to coarse grained SAND with some stained peat, trace fine gravel, wet, odor.		2,350			4
5		***SP-SM*** **Dark brown, poorly graded SAND with Silt** - Fine to medium grained SAND, some Silt, trace peat, wet, odor.		937			5
6		***ML*** **Brown, Sandy SILT** - Mostly fine to medium Sandy SILT, brown with staining, some Peat, trace fine gravel. Peat present at end of macrocore, wet, odor.					6
7				1,816			7
8		End of Borehole					8
9							9
10							10

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

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Soil Boring Log

Boring No. SB-4

Project Name: Commander Oil Terminal
Site Location: 1 Commander Square, Oyster Bay, NY
Kleinfelder Project No: 111556
Client: Renaissance Propery Associates
Start Date: 11/22/10
End Date: 11/22/10
Logged By (Geol.): Zachary Halsey
Checked By: Zachary Halsey

Drilling Company: AES
Driller: Ryan Jensen
Drill Rig Type: Geoprobe 6610 DT
Drilling Method: Direct Push
Total Hole Depth: 9 fbg
Depth to Bedrock: Not encountered
Borehole Diameter: 2"
Sampling Method: Macrocore

Surface Elevation: NA
Initial Water Level:
Notes:

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description	Sample ID (fbg)	PID Headspace (ppmv) 0 2500 5000	Blow Counts (6-inch interval)	Sample Recovery (inches)	Depth (feet)
		Ground Surface					
0		***FILL*** **FILL** - RCA FILL Material	0-2	NS	NA	NA	0
2		***SP-SM*** **Gray-brown, poorly graded SAND with Silt** - Medium to coarse grained SAND, some Silt, trace fine gravel, shells, odor, wet.		319			2
3		***SM*** **Gray-brown, Silty SAND** - Fine to medium grained Silty SAND, little fine gravel, odor, wet, compacted.		1,194			3
4		***ML*** **Grayish-black Sandy SILT** - Fine grained Sandy SILT, some Peat with staining and odor, wet.	2-7	1,585	NA	40	4
5		***ML*** **Dark gray Sandy SILT** - Medium to fine grained Sandy SILT, some Peat, odor, wet.		2,115			5
7		***SM*** **Dark brown, Silty SAND** - Fine grained Silty SAND, trace fine gravel, trace peat, odor, wet.	7-9	2,089	NA	20	7
9		End of Borehole					9
10							10

BDL - below instrument detection limit
fbg - feet below grade
msl - mean sea level
NA - not applicable
NM - not measured
NR - no soil recovered
NS - not sampled
PID - photoionization detector
ppmv - parts per million by volume
PVC - polyvinyl chloride

Colors approximated using Munsell Color Chart, 2000.
Geologic descriptions based on ASTM D 2488.
* - sample collected for laboratory analysis

APPENDIX B

Laboratory Analytical Data

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Monday, October 18, 2010

Richard Swedborg
Kleinfelder
1 Corporate Dr., Suite 201
Bohemia, NY 11716

TEL: (631) 218-0612
FAX (631) 218-0787

RE: Commander Oil Terminal, One Commander

Order No.: 1010099

Dear Richard Swedborg:

American Analytical Laboratories, LLC. received 6 sample(s) on 10/13/2010 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 16 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

CLIENT: Kleinfelder
Project: Commander Oil Terminal, One Commander Squ
Lab Order: 1010099

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1010099-01A	EP-1, 2-2.5'	10/12/2010 12:55:00 PM	10/13/2010
1010099-02A	EP-3, 2-2.5'	10/12/2010 1:20:00 PM	10/13/2010
1010099-03A	EP-5, 1.5-2'	10/12/2010 2:02:00 PM	10/13/2010
1010099-04A	EP-6, 2-2.5'	10/12/2010 2:28:00 PM	10/13/2010
1010099-05A	EP-7, 2-2.5'	10/12/2010 2:31:00 PM	10/13/2010
1010099-06A	EP-8, 2-2.5'	10/12/2010 2:34:00 PM	10/13/2010

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS
Klein Selda
One Corporate Dr, Suite 201
Bohemia, NY 11716

CONTACT:
Richard Swedberg
(631) 218-0612

SAMPLER (SIGNATURE): Zachary R. Halsey

SAMPLER NAME (PRINT): Zachary R. Halsey

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

TEMPERATURE (° C) _____

PROJECT LOCATION: Commander Oil Terminal
One Commander Square
Oyster Bay, New York

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: VOCs 8260	TCE	1,2-dichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Vinyl Chloride	BTEX	MTBE
1010099-01A	SG	2	10/12/10	1255	EP-1, 2-2.5'	X	X	X	X	X	X	X	X
-02A	SG	2	10/12/10	1320	EP-3, 2-2.5'	X	X	X	X	X	X	X	X
-03A	SG	2	10/12/10	1402	EP-5, 1.5-2'	X	X	X	X	X	X	X	X
-04A	SG	2	10/12/10	1428	EP-6, 2-2.5'	X	X	X	X	X	X	X	X
-05A	SG	2	10/12/10	1431	EP-7, 2-2.5'	X	X	X	X	X	X	X	X
-06A	SG	2	10/12/10	1434	EP-8, 2-2.5'	X	X	X	X	X	X	X	X

COMMENTS / INSTRUCTIONS

Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED
STANDARD ☒ STAT ☐ BY / /
(7-10 business days)

E-MAIL ADDRESS FOR RESULTS: rswedberg@KleinSelda.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Zachary R. Halsey	10/13/10 1300	Zachary Halsey	P. Masi	10/13/10 1:00pm	P. Masi
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **KLEINFELDER** Date and Time Receive **10/13/2010 1:22:16 PM**

Work Order Numbe **1010099** RcptNo: **1** Received by **PM**

COC_ID: CoolerID:

Checklist completed by Signature 10/13/10 Date Reviewed by Initials 10/13/10 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Cooler with ice @ 1.5C

Corrective Action _____

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-1, 2-2.5'
Lab Order:	1010099	**Collection Date:**	10/12/2010 12:55:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	6.39	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.32	5.3		µg/Kg-dry	1	10/14/2010 2:03:00 PM
cis-1,2-Dichloroethene	6.5	0.32	5.3		µg/Kg-dry	1	10/14/2010 2:03:00 PM
trans-1,2-Dichloroethene	U	0.43	5.3		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Trichloroethene	U	0.32	5.3		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Vinyl chloride	U	0.32	5.3		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Surr: 4-Bromofluorobenzene	113	0	61-135		%REC	1	10/14/2010 2:03:00 PM
Surr: Dibromofluoromethane	111	0	63-131		%REC	1	10/14/2010 2:03:00 PM
Surr: Toluene-d8	104	0	61-131		%REC	1	10/14/2010 2:03:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	15	0.31	5.2		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Ethylbenzene	25	0.31	5.2		µg/Kg-dry	1	10/14/2010 2:03:00 PM
m,p-Xylene	15	0.31	10		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Methyl tert-butyl ether	U	0.31	5.2		µg/Kg-dry	1	10/14/2010 2:03:00 PM
o-Xylene	7.6	0.31	5.2		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Toluene	72	0.31	5.2		µg/Kg-dry	1	10/14/2010 2:03:00 PM
Surr: 4-Bromofluorobenzene	113	0	63-127		%REC	1	10/14/2010 2:03:00 PM
Surr: Toluene-d8	104	0	62-128		%REC	1	10/14/2010 2:03:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-3, 2-2.5'
Lab Order:	1010099	**Collection Date:**	10/12/2010 1:20:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	19.3	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
cis-1,2-Dichloroethene	5.5	0.37	6.2	J	µg/Kg-dry	1	10/14/2010 2:30:00 PM
trans-1,2-Dichloroethene	U	0.5	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Trichloroethene	U	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Vinyl chloride	U	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Surr: 4-Bromofluorobenzene	92.8	0	61-135		%REC	1	10/14/2010 2:30:00 PM
Surr: Dibromofluoromethane	81.7	0	63-131		%REC	1	10/14/2010 2:30:00 PM
Surr: Toluene-d8	101	0	61-131		%REC	1	10/14/2010 2:30:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	6.2	0.37	6.2	J	µg/Kg-dry	1	10/14/2010 2:30:00 PM
Ethylbenzene	9.4	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
m,p-Xylene	27	0.37	12		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Methyl tert-butyl ether	9.8	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
o-Xylene	13	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Toluene	16	0.37	6.2		µg/Kg-dry	1	10/14/2010 2:30:00 PM
Surr: 4-Bromofluorobenzene	92.8	0	63-127		%REC	1	10/14/2010 2:30:00 PM
Surr: Toluene-d8	101	0	62-128		%REC	1	10/14/2010 2:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-5, 1.5-2'
Lab Order:	1010099	**Collection Date:**	10/12/2010 2:02:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	6.99	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
cis-1,2-Dichloroethene	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
trans-1,2-Dichloroethene	U	0.42	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
Trichloroethene	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
Vinyl chloride	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
Surr: 4-Bromofluorobenzene	96.9	0	61-135		%REC	1	10/15/2010 6:14:00 PM
Surr: Dibromofluoromethane	90.4	0	63-131		%REC	1	10/15/2010 6:14:00 PM
Surr: Toluene-d8	99.1	0	61-131		%REC	1	10/15/2010 6:14:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
Ethylbenzene	1.0	0.32	5.3	J	µg/Kg-dry	1	10/15/2010 6:14:00 PM
m,p-Xylene	1.6	0.32	11	J	µg/Kg-dry	1	10/15/2010 6:14:00 PM
Methyl tert-butyl ether	U	0.32	5.3		µg/Kg-dry	1	10/15/2010 6:14:00 PM
o-Xylene	2.5	0.32	5.3	J	µg/Kg-dry	1	10/15/2010 6:14:00 PM
Toluene	0.90	0.32	5.3	J	µg/Kg-dry	1	10/15/2010 6:14:00 PM
Surr: 4-Bromofluorobenzene	96.9	0	63-127		%REC	1	10/15/2010 6:14:00 PM
Surr: Toluene-d8	99.1	0	62-128		%REC	1	10/15/2010 6:14:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-6, 2-2.5'
Lab Order:	1010099	**Collection Date:**	10/12/2010 2:28:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	11.6	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
cis-1,2-Dichloroethene	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
trans-1,2-Dichloroethene	U	56.5	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
Trichloroethene	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
Vinyl chloride	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
Surr: 4-Bromofluorobenzene	105	0	61-135		%REC	125	10/14/2010 3:23:00 PM
Surr: Dibromofluoromethane	93.6	0	63-131		%REC	125	10/14/2010 3:23:00 PM
Surr: Toluene-d8	100	0	61-131		%REC	125	10/14/2010 3:23:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
Ethylbenzene	280	42.4	710	J	µg/Kg-dry	125	10/14/2010 3:23:00 PM
m,p-Xylene	340	42.4	1400	J	µg/Kg-dry	125	10/14/2010 3:23:00 PM
Methyl tert-butyl ether	U	42.4	710		µg/Kg-dry	125	10/14/2010 3:23:00 PM
o-Xylene	340	42.4	710	J	µg/Kg-dry	125	10/14/2010 3:23:00 PM
Toluene	140	42.4	710	J	µg/Kg-dry	125	10/14/2010 3:23:00 PM
Surr: 4-Bromofluorobenzene	105	0	63-127		%REC	125	10/14/2010 3:23:00 PM
Surr: Toluene-d8	100	0	62-128		%REC	125	10/14/2010 3:23:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-7, 2-2.5'
Lab Order:	1010099	**Collection Date:**	10/12/2010 2:31:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	19.9	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.37	6.2		µg/Kg-dry	1	10/14/2010 3:48:00 PM
cis-1,2-Dichloroethene	750	45.3	750		µg/Kg-dry	125	10/15/2010 6:42:00 PM
trans-1,2-Dichloroethene	3.8	0.5	6.2	J	µg/Kg-dry	1	10/14/2010 3:48:00 PM
Trichloroethene	44	0.37	6.2		µg/Kg-dry	1	10/14/2010 3:48:00 PM
Vinyl chloride	560	45.3	750	J	µg/Kg-dry	125	10/15/2010 6:42:00 PM
Surr: 4-Bromofluorobenzene	99.2	0	61-135		%REC	1	10/14/2010 3:48:00 PM
Surr: 4-Bromofluorobenzene	102	0	61-135		%REC	125	10/15/2010 6:42:00 PM
Surr: Dibromofluoromethane	88.2	0	63-131		%REC	1	10/14/2010 3:48:00 PM
Surr: Dibromofluoromethane	93.2	0	63-131		%REC	125	10/15/2010 6:42:00 PM
Surr: Toluene-d8	96.9	0	61-131		%REC	1	10/14/2010 3:48:00 PM
Surr: Toluene-d8	100	0	61-131		%REC	125	10/15/2010 6:42:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	3.5	0.36	6.0	J	µg/Kg-dry	1	10/14/2010 3:48:00 PM
Ethylbenzene	2.9	0.36	6.0	J	µg/Kg-dry	1	10/14/2010 3:48:00 PM
m,p-Xylene	5.5	0.36	12	J	µg/Kg-dry	1	10/14/2010 3:48:00 PM
Methyl tert-butyl ether	U	0.36	6.0		µg/Kg-dry	1	10/14/2010 3:48:00 PM
o-Xylene	7.6	0.36	6.0		µg/Kg-dry	1	10/14/2010 3:48:00 PM
Toluene	11	0.36	6.0		µg/Kg-dry	1	10/14/2010 3:48:00 PM
Surr: 4-Bromofluorobenzene	99.2	0	63-127		%REC	1	10/14/2010 3:48:00 PM
Surr: Toluene-d8	96.9	0	62-128		%REC	1	10/14/2010 3:48:00 PM

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	EP-8, 2-2.5'
Lab Order:	1010099	**Collection Date:**	10/12/2010 2:34:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	SOIL
Lab ID:	1010099-06A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	13.6	0	0		wt%	1	10/14/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
cis-1,2-Dichloroethene	190	43.4	720	J	µg/Kg-dry	125	10/14/2010 4:16:00 PM
trans-1,2-Dichloroethene	U	57.8	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
Trichloroethene	U	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
Vinyl chloride	U	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
Surr: 4-Bromofluorobenzene	113	0	61-135		%REC	125	10/14/2010 4:16:00 PM
Surr: Dibromofluoromethane	91.8	0	63-131		%REC	125	10/14/2010 4:16:00 PM
Surr: Toluene-d8	100	0	61-131		%REC	125	10/14/2010 4:16:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
Ethylbenzene	890	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
m,p-Xylene	1000	43.4	1400	J	µg/Kg-dry	125	10/14/2010 4:16:00 PM
Methyl tert-butyl ether	U	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
o-Xylene	1000	43.4	720		µg/Kg-dry	125	10/14/2010 4:16:00 PM
Toluene	550	43.4	720	J	µg/Kg-dry	125	10/14/2010 4:16:00 PM
Surr: 4-Bromofluorobenzene	113	0	63-127		%REC	125	10/14/2010 4:16:00 PM
Surr: Toluene-d8	100	0	62-128		%REC	125	10/14/2010 4:16:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *18-Oct-10*

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-101410YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724** TestNo: **SW8260B** Analysis Date: **10/14/2010** SeqNo: **754856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	46	5.0	50.00	0	92.6	30	130				
Tetrachloroethene	31	5.0	50.00	0	62.1	20	120				
trans-1,2-Dichloroethene	41	5.0	50.00	0	82.1	20	120				
Trichloroethene	37	5.0	50.00	0	73.8	23	121				
Vinyl chloride	60	5.0	50.00	0	120	30	130				
Surr: 4-Bromofluorobenzene	49		50.00		98.2	61	135				
Surr: Dibromofluoromethane	55		50.00		110	63	131				
Surr: Toluene-d8	51		50.00		103	61	131				

Sample ID: **VBLK-101410YS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724** TestNo: **SW8260B** Analysis Date: **10/14/2010** SeqNo: **754857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	51		50.00		101	61	135				
Surr: Dibromofluoromethane	54		50.00		108	63	131				
Surr: Toluene-d8	52		50.00		104	61	131				

Sample ID: **V624LCS-101410YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724B** TestNo: **SW8260B** Analysis Date: **10/14/2010** SeqNo: **754866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	46	5.0	50.00	0	92.0	30	130				
Tetrachloroethene	34	5.0	50.00	0	68.0	20	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-101410YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724B** TestNo: **SW8260B** Analysis Date: **10/14/2010** SeqNo: **754866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	40	5.0	50.00	0	80.1	20	120				
Trichloroethene	39	5.0	50.00	0	78.5	23	121				
Vinyl chloride	57	5.0	50.00	0	115	30	130				
Surr: 4-Bromofluorobenzene	50		50.00		99.2	61	135				
Surr: Dibromofluoromethane	52		50.00		103	63	131				
Surr: Toluene-d8	51		50.00		101	61	131				

Sample ID: **VBLK-101410YS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724B** TestNo: **SW8260B** Analysis Date: **10/14/2010** SeqNo: **754867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.5	61	135				
Surr: Dibromofluoromethane	54		50.00		108	63	131				
Surr: Toluene-d8	51		50.00		102	61	131				

Sample ID: **V624LCS-101510YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724D** TestNo: **SW8260B** Analysis Date: **10/15/2010** SeqNo: **754981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	37	5.0	50.00	0	74.9	30	130				
Tetrachloroethene	32	5.0	50.00	0	63.9	20	120				
trans-1,2-Dichloroethene	37	5.0	50.00	0	73.5	20	120				
Trichloroethene	38	5.0	50.00	0	75.2	23	121				
Vinyl chloride	47	5.0	50.00	0	93.1	30	130				
Surr: 4-Bromofluorobenzene	49		50.00		98.6	61	135				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-101510YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724D** TestNo: **SW8260B** Analysis Date: **10/15/2010** SeqNo: **754981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49		50.00		97.3	63	131				
Surr: Toluene-d8	50		50.00		100	61	131				

Sample ID: **VBLK-101510YS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724D** TestNo: **SW8260B** Analysis Date: **10/15/2010** SeqNo: **754982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	49		50.00		97.4	61	135				
Surr: Dibromofluoromethane	47		50.00		94.8	63	131				
Surr: Toluene-d8	50		50.00		100	61	131				

Sample ID: **V624LCS-101510YS** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724F** TestNo: **SW8260B** Analysis Date: **10/15/2010** SeqNo: **754987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	41	5.0	50.00	0	81.7	30	130				
Tetrachloroethene	39	5.0	50.00	0	78.4	20	120				
trans-1,2-Dichloroethene	46	5.0	50.00	0	92.9	20	120				
Trichloroethene	46	5.0	50.00	0	91.2	23	121				
Vinyl chloride	53	5.0	50.00	0	106	30	130				
Surr: 4-Bromofluorobenzene	48		50.00		96.9	61	135				
Surr: Dibromofluoromethane	50		50.00		99.2	63	131				
Surr: Toluene-d8	49		50.00		98.6	61	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **VBLK-101510YS**	SampType: **MBLK**	TestCode: **8260breakdo**	Units: **µg/Kg**	Prep Date:	RunNo: **53724**
Client ID: **PBS**	Batch ID: **R53724F**	TestNo: **SW8260B**		Analysis Date: **10/15/2010**	SeqNo: **754988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.6	61	135				
Surr: Dibromofluoromethane	49		50.00		98.4	63	131				
Surr: Toluene-d8	50		50.00		99.3	61	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: DryBTEXMTBE

Sample ID: **V624LCS-101410YS** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/14/2010** RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724A** TestNo: **SW8260** Analysis Date: **10/14/2010** SeqNo: **754861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43	5.0	50.00	0	86.0	30	130				
Ethylbenzene	40	5.0	50.00	0	80.5	15	130				
Toluene	40	5.0	50.00	0	80.2	20	119				
Surr: 4-Bromofluorobenzene	49		50.00		98.2	61	133				
Surr: Toluene-d8	51		50.00		103	57	131				

Sample ID: **VBLK-101410YS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/14/2010** RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724A** TestNo: **SW8260** Analysis Date: **10/14/2010** SeqNo: **754862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	51		50.00		101	63	127				
Surr: Toluene-d8	52		50.00		104	62	128				

Sample ID: **V624LCS-101410YS** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/14/2010** RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724C** TestNo: **SW8260** Analysis Date: **10/14/2010** SeqNo: **754870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43	5.0	50.00	0	86.9	30	130				
Ethylbenzene	43	5.0	50.00	0	85.0	15	130				
Toluene	42	5.0	50.00	0	84.7	20	119				
Surr: 4-Bromofluorobenzene	50		50.00		99.2	61	133				
Surr: Toluene-d8	51		50.00		101	57	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1010099
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: DryBTEXMTBE

Sample ID: **VBLK-101410YS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/14/2010** RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724C** TestNo: **SW8260** Analysis Date: **10/14/2010** SeqNo: **754871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.5	63	127				
Surr: Toluene-d8	51		50.00		102	62	128				

Sample ID: **V624LCS-101510YS** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/15/2010** RunNo: **53724**
Client ID: **LCSS** Batch ID: **R53724E** TestNo: **SW8260** Analysis Date: **10/15/2010** SeqNo: **754984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37	5.0	50.00	0	74.3	30	130				
Ethylbenzene	37	5.0	50.00	0	74.8	15	130				
Toluene	38	5.0	50.00	0	76.7	20	119				
Surr: 4-Bromofluorobenzene	49		50.00		98.6	61	133				
Surr: Toluene-d8	50		50.00		100	57	131				

Sample ID: **VBLK-101510YS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **10/15/2010** RunNo: **53724**
Client ID: **PBS** Batch ID: **R53724E** TestNo: **SW8260** Analysis Date: **10/15/2010** SeqNo: **754985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	49		50.00		97.4	63	127				
Surr: Toluene-d8	50		50.00		100	62	128				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Tuesday, November 23, 2010

Richard Swedborg
Kleinfelder
1 Corporate Dr., Suite 201
Bohemia, NY 11716

TEL: (631) 218-0612
FAX (631) 218-0787

RE: Commander Oil Term., One Commander Sq

Order No.: 1011219

Dear Richard Swedborg:

American Analytical Laboratories, LLC. received 8 sample(s) on 11/18/2010 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 15 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

CLIENT: Kleinfelder
Project: Commander Oil Term., One Commander Sq. Oy
Lab Order: 1011219

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1011219-01A	DS-6, 5-6'	11/18/2010 10:30:00 AM	11/18/2010
1011219-02A	DS-6, 10-11'	11/18/2010 10:45:00 AM	11/18/2010
1011219-03A	DS-6, 20-21'	11/18/2010 11:16:00 AM	11/18/2010
1011219-04A	DS-7, 4-6'	11/18/2010 12:04:00 PM	11/18/2010
1011219-05A	DS-7, 9-11'	11/18/2010 12:20:00 PM	11/18/2010
1011219-06A	DS-7, 19-21'	11/18/2010 12:45:00 PM	11/18/2010
1011219-07A	DS-1, 8-10'	11/18/2010 3:25:00 PM	11/18/2010
1011219-08A	Trip Blank	11/18/2010	11/18/2010

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www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: KleinFelder, One Corporate Dr, Suite 201, Bohemia, NY 11716

CONTACT: Richard Swedberg (631) 218-0612

SAMPLER (SIGNATURE): [signature]

SAMPLER NAME (PRINT): Zachary R. Halsey

SAMPLE(S) SEALED: YES / NO (YES circled)

CORRECT CONTAINER(S): YES / NO (YES circled)

TEMPERATURE (° C): 5.2°

PROJECT LOCATION: Commander Oil Terminal, One Commander Square, Oyster Bay, NY

ANALYSIS REQUIRED: VOCs 8260*

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	VOCs 8260*											
1011219-01	WG	2	11/18/10	1030	DS-6, 5-6'	X											
02	WG	2	11/18/10	1045	DS-6, 10-11'	X											
03	WG	2	11/18/10	1116	DS-6, 20-21'	X											
04	WG	2	11/18/10	1204	DS-7, 4-6'	X											
05	WG	2	11/18/10	1220	DS-7, 9-11'	X											
06	WG	2	11/18/10	1245	DS-7, 19-21'	X											
07	WG	2	11/18/10	1525	DS-1, 8-10'	X											
~~ ~~	~~WG~~	~~2~~	~~11/18/10~~	~~1540~~ 1605	~~DS-1, 14-16'~~	X		NS									ch 11/18/10
					NS												
1011219-08	W	2	—	—	Trip Blank	X											

COMMENTS / INSTRUCTIONS
* Report only CVOCs: TCE, DCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and VC.

Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: STANDARD ☐ (7-10 business days) STAT ☐ BY / / 24-48 hrs

E-MAIL ADDRESS FOR RESULTS: rswedberg@kleinfelder.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	11/18/10 / 1620	Zachary Halsey	[signature]	11-18-10 / 1620	C Dunn
[signature]	11-18-10 / 5:00	C Dunn	[signature]	11/18/10 / 17:00	Lori Beyer

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **KLEINFELDER** Date and Time Receive **11/18/2010**

Work Order Numbe **1011219** RcptNo: **1** Received by **LB**

COC_ID: CoolerID:

Checklist completed b Signature 11/19/10 Date Reviewed by CB Initials 11/19/10 Date

Matrix Carrier name Lab Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: cooler with ice. 5.2 degrees C

Corrective Action _____

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-6, 5-6'
Lab Order:	1011219	**Collection Date:**	11/18/2010 10:30:00 AM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/19/2010 4:42:00 PM
cis-1,2-Dichloroethene	150000	15	50		µg/L	50	11/23/2010 12:21:00 AM
trans-1,2-Dichloroethene	310	15	50		µg/L	50	11/23/2010 12:21:00 AM
Trichloroethene	5.4	0.3	1.0		µg/L	1	11/19/2010 4:42:00 PM
Vinyl chloride	100000	15	50		µg/L	50	11/23/2010 12:21:00 AM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	50	11/23/2010 12:21:00 AM
Surr: 4-Bromofluorobenzene	94.3	0	65-130		%REC	1	11/19/2010 4:42:00 PM
Surr: Dibromofluoromethane	106	0	63-127		%REC	50	11/23/2010 12:21:00 AM
Surr: Dibromofluoromethane	104	0	63-127		%REC	1	11/19/2010 4:42:00 PM
Surr: Toluene-d8	102	0	61-128		%REC	50	11/23/2010 12:21:00 AM
Surr: Toluene-d8	107	0	61-128		%REC	1	11/19/2010 4:42:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-6, 10-11'
Lab Order:	1011219	**Collection Date:**	11/18/2010 10:45:00 AM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/22/2010 6:43:00 PM
cis-1,2-Dichloroethene	680	15	50		µg/L	50	11/22/2010 7:31:00 PM
trans-1,2-Dichloroethene	2.6	0.3	1.0		µg/L	1	11/22/2010 6:43:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	11/22/2010 6:43:00 PM
Vinyl chloride	450	15	50		µg/L	50	11/22/2010 7:31:00 PM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	50	11/22/2010 7:31:00 PM
Surr: 4-Bromofluorobenzene	103	0	65-130		%REC	1	11/22/2010 6:43:00 PM
Surr: Dibromofluoromethane	101	0	63-127		%REC	50	11/22/2010 7:31:00 PM
Surr: Dibromofluoromethane	101	0	63-127		%REC	1	11/22/2010 6:43:00 PM
Surr: Toluene-d8	107	0	61-128		%REC	50	11/22/2010 7:31:00 PM
Surr: Toluene-d8	106	0	61-128		%REC	1	11/22/2010 6:43:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-6, 20-21'
Lab Order:	1011219	**Collection Date:**	11/18/2010 11:16:00 AM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/19/2010 5:54:00 PM
cis-1,2-Dichloroethene	2700	15	50		µg/L	50	11/23/2010 12:45:00 AM
trans-1,2-Dichloroethene	14	0.3	1.0		µg/L	1	11/19/2010 5:54:00 PM
Trichloroethene	31	0.3	1.0		µg/L	1	11/19/2010 5:54:00 PM
Vinyl chloride	1300	15	50		µg/L	50	11/23/2010 12:45:00 AM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	50	11/23/2010 12:45:00 AM
Surr: 4-Bromofluorobenzene	96.6	0	65-130		%REC	1	11/19/2010 5:54:00 PM
Surr: Dibromofluoromethane	103	0	63-127		%REC	50	11/23/2010 12:45:00 AM
Surr: Dibromofluoromethane	109	0	63-127		%REC	1	11/19/2010 5:54:00 PM
Surr: Toluene-d8	106	0	61-128		%REC	50	11/23/2010 12:45:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	11/19/2010 5:54:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-7, 4-6'
Lab Order:	1011219	**Collection Date:**	11/18/2010 12:04:00 PM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: LA
1,2-Dichloroethane	U	3	10		µg/L	10	11/19/2010 6:30:00 PM
cis-1,2-Dichloroethene	76000	15	50		µg/L	50	11/23/2010 1:09:00 AM
trans-1,2-Dichloroethene	330	3	10		µg/L	10	11/19/2010 6:30:00 PM
Trichloroethene	770000	15	50		µg/L	50	11/23/2010 1:09:00 AM
Vinyl chloride	4700	15	50		µg/L	50	11/23/2010 1:09:00 AM
Surr: 4-Bromofluorobenzene	104	0	65-130		%REC	50	11/23/2010 1:09:00 AM
Surr: 4-Bromofluorobenzene	96.3	0	65-130		%REC	10	11/19/2010 6:30:00 PM
Surr: Dibromofluoromethane	94.4	0	63-127		%REC	50	11/23/2010 1:09:00 AM
Surr: Dibromofluoromethane	112	0	63-127		%REC	10	11/19/2010 6:30:00 PM
Surr: Toluene-d8	182	0	61-128	S	%REC	50	11/23/2010 1:09:00 AM
Surr: Toluene-d8	429	0	61-128	S	%REC	10	11/19/2010 6:30:00 PM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-7, 9-11'
Lab Order:	1011219	**Collection Date:**	11/18/2010 12:20:00 PM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/19/2010 7:08:00 PM
cis-1,2-Dichloroethene	340000	15	50		µg/L	50	11/23/2010 1:32:00 AM
trans-1,2-Dichloroethene	680	15	50		µg/L	50	11/23/2010 1:32:00 AM
Trichloroethene	62000	15	50		µg/L	50	11/23/2010 1:32:00 AM
Vinyl chloride	75000	15	50		µg/L	50	11/23/2010 1:32:00 AM
Surr: 4-Bromofluorobenzene	102	0	65-130		%REC	50	11/23/2010 1:32:00 AM
Surr: 4-Bromofluorobenzene	98.0	0	65-130		%REC	1	11/19/2010 7:08:00 PM
Surr: Dibromofluoromethane	105	0	63-127		%REC	50	11/23/2010 1:32:00 AM
Surr: Dibromofluoromethane	106	0	63-127		%REC	1	11/19/2010 7:08:00 PM
Surr: Toluene-d8	109	0	61-128		%REC	50	11/23/2010 1:32:00 AM
Surr: Toluene-d8	361	0	61-128	S	%REC	1	11/19/2010 7:08:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

ACCREDITED IN ACCORDANCE WITH nelac

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-7, 19-21'
Lab Order:	1011219	**Collection Date:**	11/18/2010 12:45:00 PM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-06A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	3	10		µg/L	10	11/19/2010 7:46:00 PM
cis-1,2-Dichloroethene	29000	15	50		µg/L	50	11/23/2010 1:56:00 AM
trans-1,2-Dichloroethene	56	3	10		µg/L	10	11/19/2010 7:46:00 PM
Trichloroethene	200000	15	50		µg/L	50	11/23/2010 1:56:00 AM
Vinyl chloride	2900	15	50		µg/L	50	11/23/2010 1:56:00 AM
Surr: 4-Bromofluorobenzene	103	0	65-130		%REC	50	11/23/2010 1:56:00 AM
Surr: 4-Bromofluorobenzene	100	0	65-130		%REC	10	11/19/2010 7:46:00 PM
Surr: Dibromofluoromethane	99.1	0	63-127		%REC	50	11/23/2010 1:56:00 AM
Surr: Dibromofluoromethane	108	0	63-127		%REC	10	11/19/2010 7:46:00 PM
Surr: Toluene-d8	116	0	61-128		%REC	50	11/23/2010 1:56:00 AM
Surr: Toluene-d8	161	0	61-128	S	%REC	10	11/19/2010 7:46:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-1, 8-10'
Lab Order:	1011219	**Collection Date:**	11/18/2010 3:25:00 PM
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/22/2010 7:07:00 PM
cis-1,2-Dichloroethene	230	15	50		µg/L	50	11/22/2010 7:54:00 PM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/22/2010 7:07:00 PM
Trichloroethene	4300	15	50		µg/L	50	11/22/2010 7:54:00 PM
Vinyl chloride	28	0.3	1.0		µg/L	1	11/22/2010 7:07:00 PM
Surr: 4-Bromofluorobenzene	99.4	0	65-130		%REC	50	11/22/2010 7:54:00 PM
Surr: 4-Bromofluorobenzene	100	0	65-130		%REC	1	11/22/2010 7:07:00 PM
Surr: Dibromofluoromethane	115	0	63-127		%REC	50	11/22/2010 7:54:00 PM
Surr: Dibromofluoromethane	96.6	0	63-127		%REC	1	11/22/2010 7:07:00 PM
Surr: Toluene-d8	106	0	61-128		%REC	50	11/22/2010 7:54:00 PM
Surr: Toluene-d8	120	0	61-128		%REC	1	11/22/2010 7:07:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

ACCREDITED IN ACCORDANCE WITH nelac

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *23-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	Trip Blank
Lab Order:	1011219	**Collection Date:**	11/18/2010
Project:	Commander Oil Term., One Commander Sq. Oy	**Matrix:**	LIQUID
Lab ID:	1011219-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/22/2010 6:19:00 PM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/22/2010 6:19:00 PM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/22/2010 6:19:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	11/22/2010 6:19:00 PM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/22/2010 6:19:00 PM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	1	11/22/2010 6:19:00 PM
Surr: Dibromofluoromethane	104	0	63-127		%REC	1	11/22/2010 6:19:00 PM
Surr: Toluene-d8	104	0	61-128		%REC	1	11/22/2010 6:19:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

CLIENT: Kleinfelder
Work Order: 1011219
Project: Commander Oil Term., One Commander Sq. Oy

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-111910HW** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/19/2010** RunNo: **54491**
Client ID: **LCSW** Batch ID: **R54491** TestNo: **SW8260B** Analysis Date: **11/19/2010** SeqNo: **765553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	47	1.0	50.00	0	94.7	36	141				
Tetrachloroethene	32	1.0	50.00	0	63.9	45	136				
trans-1,2-Dichloroethene	40	1.0	50.00	0	80.4	42	135				
Trichloroethene	37	1.0	50.00	0	74.8	43	140				
Vinyl chloride	55	1.0	50.00	0	110	35	142				
Surr: 4-Bromofluorobenzene	48		50.00		95.0	60	130				
Surr: Dibromofluoromethane	54		50.00		108	63	127				
Surr: Toluene-d8	52		50.00		103	61	128				

Sample ID: **VBLK-111910HW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/19/2010** RunNo: **54491**
Client ID: **PBW** Batch ID: **R54491** TestNo: **SW8260B** Analysis Date: **11/19/2010** SeqNo: **765554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.6	60	130				
Surr: Dibromofluoromethane	53		50.00		107	63	127				
Surr: Toluene-d8	50		50.00		101	61	128				

Sample ID: **V624LCS-112210LW** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/22/2010** RunNo: **54491**
Client ID: **LCSW** Batch ID: **R54491A** TestNo: **SW8260B** Analysis Date: **11/22/2010** SeqNo: **766424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	39	1.0	50.00	0	77.1	36	141				
Tetrachloroethene	37	1.0	50.00	0	74.8	45	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011219
Project: Commander Oil Term., One Commander Sq. Oy

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-112210LW** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/22/2010** RunNo: **54491**
Client ID: **LCSW** Batch ID: **R54491A** TestNo: **SW8260B** Analysis Date: **11/22/2010** SeqNo: **766424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	35	1.0	50.00	0	70.1	42	135				
Trichloroethene	38	1.0	50.00	0	75.0	43	140				
Vinyl chloride	52	1.0	50.00	0	104	35	142				
Surr: 4-Bromofluorobenzene	49		50.00		98.6	60	130				
Surr: Dibromofluoromethane	46		50.00		92.2	63	127				
Surr: Toluene-d8	53		50.00		107	61	128				

Sample ID: **VBLK-112210LW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/22/2010** RunNo: **54491**
Client ID: **PBW** Batch ID: **R54491A** TestNo: **SW8260B** Analysis Date: **11/22/2010** SeqNo: **766425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	49		50.00		98.3	60	130				
Surr: Dibromofluoromethane	51		50.00		102	63	127				
Surr: Toluene-d8	52		50.00		104	61	128				

Sample ID: **V624LCS-112210aL** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/22/2010** RunNo: **54491**
Client ID: **LCSW** Batch ID: **R54491B** TestNo: **SW8260B** Analysis Date: **11/22/2010** SeqNo: **766431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	41	1.0	50.00	0	82.2	36	141				
Tetrachloroethene	38	1.0	50.00	0	75.0	45	136				
trans-1,2-Dichloroethene	35	1.0	50.00	0	70.9	42	135				
Trichloroethene	38	1.0	50.00	0	75.3	43	140				
Vinyl chloride	51	1.0	50.00	0	102	35	142				
Surr: 4-Bromofluorobenzene	50		50.00		99.9	60	130				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011219
Project: Commander Oil Term., One Commander Sq. Oy

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-112210aL**	SampType: **LCS**	TestCode: **8260breakdo**	Units: **µg/L**	Prep Date: **11/22/2010**	RunNo: **54491**
Client ID: **LCSW**	Batch ID: **R54491B**	TestNo: **SW8260B**		Analysis Date: **11/22/2010**	SeqNo: **766431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	53		50.00		106	63	127				
Surr: Toluene-d8	53		50.00		106	61	128				

Sample ID: **VBLK-112210aLW**	SampType: **MBLK**	TestCode: **8260breakdo**	Units: **µg/L**	Prep Date: **11/22/2010**	RunNo: **54491**
Client ID: **PBW**	Batch ID: **R54491B**	TestNo: **SW8260B**		Analysis Date: **11/22/2010**	SeqNo: **766432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		101	60	130				
Surr: Dibromofluoromethane	53		50.00		105	63	127				
Surr: Toluene-d8	52		50.00		104	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

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DS-GWS.

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Wednesday, November 24, 2010

Richard Swedborg
Kleinfelder
1 Corporate Dr., Suite 201
Bohemia, NY 11716

TEL: (631) 218-0612
FAX (631) 218-0787

RE: Commander Oil Terminal, One Commander

Order No.: 1011233

Dear Richard Swedborg:

American Analytical Laboratories, LLC. received 17 sample(s) on 11/19/2010 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 26 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

CLIENT: Kleinfelder
Project: Commander Oil Terminal, One Commander Squ
Lab Order: 1011233

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1011233-01A	DS-1, 16-18'	11/18/2010 4:26:00 PM	11/19/2010
1011233-02A	DS-1, 23-25'	11/18/2010 4:50:00 PM	11/19/2010
1011233-03A	DS-5, 7-9'	11/19/2010 8:50:00 AM	11/19/2010
1011233-04A	DS-5, 10-13'	11/19/2010 9:18:00 AM	11/19/2010
1011233-05A	DS-5, 19-22'	11/19/2010 9:40:00 AM	11/19/2010
1011233-06A	DS-5, 29-32'	11/19/2010 10:10:00 AM	11/19/2010
1011233-07A	DS-4, 4-7'	11/19/2010 11:15:00 AM	11/19/2010
1011233-08A	DS-4, 9-12'	11/19/2010 11:30:00 AM	11/19/2010
1011233-09A	DS-4, 19-22'	11/19/2010 11:50:00 AM	11/19/2010
1011233-10A	DS-4, 29-32'	11/19/2010 12:15:00 PM	11/19/2010
1011233-11A	DS-2, 9-12'	11/19/2010 1:40:00 PM	11/19/2010
1011233-12A	DS-2, 15-18'	11/19/2010 1:55:00 PM	11/19/2010
1011233-13A	DS-2, 23-26'	11/19/2010 2:05:00 PM	11/19/2010
1011233-14A	DS-3, 5-8'	11/19/2010 2:50:00 PM	11/19/2010
1011233-15A	DS-3, 13-16'	11/19/2010 3:00:00 PM	11/19/2010
1011233-16A	DS-3, 19-22'	11/19/2010 3:25:00 PM	11/19/2010
1011233-17A	Trip Blank	11/18/2010	11/19/2010

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NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: Kleinfelder, One Corporate Dr, Suite 201, Bohemia, NY 11716

CONTACT: Richard Swedberg (631) 218-0612

SAMPLER (SIGNATURE):

SAMPLER NAME (PRINT): Zachary Hubay

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

TEMPERATURE (° C) _____

PROJECT LOCATION: Commander Oil Tenant, One Commander Square, Oyster Bay, NY

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: CVOCs 8260
1011233-01A	WG	2	11/18/10	1626	DS-1, 16-18'	X
-02A	WG	2	11/18/10	1650	DS-1, 23-25'	X
-03A	WG	2	11/19/10	0550	DS-5, 7-9'	X
-04A	WG	2	11/19/10	0918	DS-5, 10-13'	X
-05A	WG	2	11/19/10	0940	DS-5, 19-22'	X
-06A	WG	2	11/19/10	1010	DS-5, 29-32'	X
-07A	WG	2	11/19/10	1115	DS-4, 4-7'	X
-08A	WG	2	11/19/10	1130	DS-4, 9-12'	X
-09A	WG	2	11/19/10	1150	DS-4, 19-22	X
-10A	WG	2	11/19/10	1215	DS-4, 29-32'	X
-11A	WG	2	11/19/10	1340	DS-2, 9-12'	X
-12A	WG	2	11/19/10	1355	DS-2, 15-18'	X

COMMENTS / INSTRUCTIONS: Report only CVOCs: TCE, DCE, cis-1,2-dichloroethene, trans 1,2 dichloroethene and VC

Samples must be on ICE (<6° C)

Pg 1 of 2

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED: STANDARD ☐ (7-10 business days) STAT ☐ 24-48 hrs BY / /

E-MAIL ADDRESS FOR RESULTS: rswedberg@kleinfelder.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
	11/19/10 1605	Zachary Hubay		11-19-10 1605	C. Dunn
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
	11-19-10 1715	C. Dunn		11/19/10 1715	Cate Barr

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

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(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS
Klensfelder
One Corporate Dr, Suite 201
Bohemia, NY 11716

CONTACT: Richard Swedberg
(631) 218-0662

SAMPLER (SIGNATURE)

SAMPLER NAME (PRINT)
Zachary Halsey

SAMPLE(S) SEALED (YES / NO) — YES
CORRECT CONTAINER(S) (YES / NO) — YES
TEMPERATURE (° C) _____

PROJECT LOCATION:

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: CVOCs 8260
1011233-13A	WG	2	11/19/10	1405	DS-2, 23-26'	X
-14A	WG	2	11/19/10	1450	DS-3, 5-8'	X
-15A	WG	2	11/19/10	1500	DS-3, 13-16'	X
-16A	WG	2	11/19/10	1525	DS-3, 19-22'	X
-17A	W	2	—	—	Trip Blank	X

COMMENTS / INSTRUCTIONS: Report only CVOCs: TCE, DCE, cis-1,2-dichloroethene, Samples must be on ICE (<6° C)
trans 1,2-dichloroethene, and VC

Pg 2 of 2

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED
STANDARD ☐ (7-10 business days) STAT ☐ 24-48 hrs BY / /

E-MAIL ADDRESS FOR RESULTS: rswedberg@klensfelder.com

RELINQUISHED BY (SIGNATURE)	DATE	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE	PRINTED NAME
	11/19/10 TIME 1605	Zachary Halsey		11-19-10 TIME 1605	C. Dunn
RELINQUISHED BY (SIGNATURE)	DATE 11-19-10 TIME 1715	PRINTED NAME C. Dunn	RECEIVED BY LAB (SIGNATURE)	DATE 11/19/10 TIME 1715	PRINTED NAME Cate Barr

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **KLEINFELDER** Date and Time Receive **11/19/2010**

Work Order Numbe **1011233** RcptNo: **1** Received by **CB**

COC_ID: CoolerID:

Checklist completed by Signature 11/22/10 Date Reviewed by Initials 11/22/10 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments: Cooler with ice @ 3.6C

Corrective Action

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-1, 16-18'
Lab Order:	1011233	**Collection Date:**	11/18/2010 4:26:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	3	10		µg/L	10	11/23/2010 2:20:00 AM
cis-1,2-Dichloroethene	68	3	10		µg/L	10	11/23/2010 2:20:00 AM
trans-1,2-Dichloroethene	U	3	10		µg/L	10	11/23/2010 2:20:00 AM
Trichloroethene	350	3	10		µg/L	10	11/23/2010 2:20:00 AM
Vinyl chloride	U	3	10		µg/L	10	11/23/2010 2:20:00 AM
Surr: 4-Bromofluorobenzene	103	0	65-130		%REC	10	11/23/2010 2:20:00 AM
Surr: Dibromofluoromethane	104	0	63-127		%REC	10	11/23/2010 2:20:00 AM
Surr: Toluene-d8	108	0	61-128		%REC	10	11/23/2010 2:20:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-1, 23-25'
Lab Order:	1011233	**Collection Date:**	11/18/2010 4:50:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	3	10		µg/L	10	11/23/2010 2:44:00 AM
cis-1,2-Dichloroethene	79	3	10		µg/L	10	11/23/2010 2:44:00 AM
trans-1,2-Dichloroethene	U	3	10		µg/L	10	11/23/2010 2:44:00 AM
Trichloroethene	190	3	10		µg/L	10	11/23/2010 2:44:00 AM
Vinyl chloride	U	3	10		µg/L	10	11/23/2010 2:44:00 AM
Surr: 4-Bromofluorobenzene	104	0	65-130		%REC	10	11/23/2010 2:44:00 AM
Surr: Dibromofluoromethane	91.0	0	63-127		%REC	10	11/23/2010 2:44:00 AM
Surr: Toluene-d8	104	0	61-128		%REC	10	11/23/2010 2:44:00 AM

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-5, 7-9'
Lab Order:	1011233	**Collection Date:**	11/19/2010 8:50:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 1:52:00 AM
cis-1,2-Dichloroethene	1.5	0.3	1.0		µg/L	1	11/24/2010 1:52:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 1:52:00 AM
Trichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 1:52:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 1:52:00 AM
Surr: 4-Bromofluorobenzene	97.6	0	65-130		%REC	1	11/24/2010 1:52:00 AM
Surr: Dibromofluoromethane	108	0	63-127		%REC	1	11/24/2010 1:52:00 AM
Surr: Toluene-d8	105	0	61-128		%REC	1	11/24/2010 1:52:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

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Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-5, 10-13'
Lab Order:	1011233	**Collection Date:**	11/19/2010 9:18:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 10:44:00 AM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 10:44:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 10:44:00 AM
Trichloroethene	29	0.3	1.0		µg/L	1	11/24/2010 10:44:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 10:44:00 AM
Surr: 4-Bromofluorobenzene	99.1	0	65-130		%REC	1	11/24/2010 10:44:00 AM
Surr: Dibromofluoromethane	102	0	63-127		%REC	1	11/24/2010 10:44:00 AM
Surr: Toluene-d8	106	0	61-128		%REC	1	11/24/2010 10:44:00 AM

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-5, 19-22'
Lab Order:	1011233	**Collection Date:**	11/19/2010 9:40:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 3:55:00 AM
cis-1,2-Dichloroethene	5.5	0.3	1.0		µg/L	1	11/23/2010 3:55:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 3:55:00 AM
Trichloroethene	620	3	10		µg/L	10	11/23/2010 9:40:00 PM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/23/2010 3:55:00 AM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	10	11/23/2010 9:40:00 PM
Surr: 4-Bromofluorobenzene	102	0	65-130		%REC	1	11/23/2010 3:55:00 AM
Surr: Dibromofluoromethane	105	0	63-127		%REC	10	11/23/2010 9:40:00 PM
Surr: Dibromofluoromethane	102	0	63-127		%REC	1	11/23/2010 3:55:00 AM
Surr: Toluene-d8	106	0	61-128		%REC	10	11/23/2010 9:40:00 PM
Surr: Toluene-d8	101	0	61-128		%REC	1	11/23/2010 3:55:00 AM

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
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Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-5, 29-32'
Lab Order:	1011233	**Collection Date:**	11/19/2010 10:10:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-06A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 2:40:00 AM
cis-1,2-Dichloroethene	5.4	0.3	1.0		µg/L	1	11/24/2010 2:40:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 2:40:00 AM
Trichloroethene	36	0.3	1.0		µg/L	1	11/24/2010 2:40:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 2:40:00 AM
Surr: 4-Bromofluorobenzene	109	0	65-130		%REC	1	11/24/2010 2:40:00 AM
Surr: Dibromofluoromethane	110	0	63-127		%REC	1	11/24/2010 2:40:00 AM
Surr: Toluene-d8	111	0	61-128		%REC	1	11/24/2010 2:40:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-4, 4-7'
Lab Order:	1011233	**Collection Date:**	11/19/2010 11:15:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	15	50		µg/L	50	11/23/2010 4:43:00 AM
cis-1,2-Dichloroethene	U	15	50		µg/L	50	11/23/2010 4:43:00 AM
trans-1,2-Dichloroethene	U	15	50		µg/L	50	11/23/2010 4:43:00 AM
Trichloroethene	180	15	50		µg/L	50	11/23/2010 4:43:00 AM
Vinyl chloride	U	15	50		µg/L	50	11/23/2010 4:43:00 AM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	50	11/23/2010 4:43:00 AM
Surr: Dibromofluoromethane	105	0	63-127		%REC	50	11/23/2010 4:43:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	50	11/23/2010 4:43:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-4, 9-12'
Lab Order:	1011233	**Collection Date:**	11/19/2010 11:30:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 3:05:00 AM
cis-1,2-Dichloroethene	6.3	0.3	1.0		µg/L	1	11/24/2010 3:05:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 3:05:00 AM
Trichloroethene	54	0.3	1.0		µg/L	1	11/24/2010 3:05:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 3:05:00 AM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	1	11/24/2010 3:05:00 AM
Surr: Dibromofluoromethane	105	0	63-127		%REC	1	11/24/2010 3:05:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	11/24/2010 3:05:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-4, 19-22'
Lab Order:	1011233	**Collection Date:**	11/19/2010 11:50:00 AM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-09A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 5:30:00 AM
cis-1,2-Dichloroethene	1.4	0.3	1.0		µg/L	1	11/23/2010 5:30:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 5:30:00 AM
Trichloroethene	54	0.3	1.0		µg/L	1	11/23/2010 5:30:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/23/2010 5:30:00 AM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	1	11/23/2010 5:30:00 AM
Surr: Dibromofluoromethane	106	0	63-127		%REC	1	11/23/2010 5:30:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	11/23/2010 5:30:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-4, 29-32'
Lab Order:	1011233	**Collection Date:**	11/19/2010 12:15:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-10A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 5:54:00 AM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 5:54:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 5:54:00 AM
Trichloroethene	14	0.3	1.0		µg/L	1	11/23/2010 5:54:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/23/2010 5:54:00 AM
Surr: 4-Bromofluorobenzene	103	0	65-130		%REC	1	11/23/2010 5:54:00 AM
Surr: Dibromofluoromethane	101	0	63-127		%REC	1	11/23/2010 5:54:00 AM
Surr: Toluene-d8	102	0	61-128		%REC	1	11/23/2010 5:54:00 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-2, 9-12'
Lab Order:	1011233	**Collection Date:**	11/19/2010 1:40:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-11A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	3	10		µg/L	10	11/23/2010 6:18:00 AM
cis-1,2-Dichloroethene	3100	3	10		µg/L	10	11/23/2010 6:18:00 AM
trans-1,2-Dichloroethene	16	3	10		µg/L	10	11/23/2010 6:18:00 AM
Trichloroethene	110	3	10		µg/L	10	11/23/2010 6:18:00 AM
Vinyl chloride	710	3	10		µg/L	10	11/23/2010 6:18:00 AM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	10	11/23/2010 6:18:00 AM
Surr: Dibromofluoromethane	104	0	63-127		%REC	10	11/23/2010 6:18:00 AM
Surr: Toluene-d8	102	0	61-128		%REC	10	11/23/2010 6:18:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
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American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-2, 15-18'
Lab Order:	1011233	**Collection Date:**	11/19/2010 1:55:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-12A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	3	10		µg/L	10	11/23/2010 6:43:00 AM
cis-1,2-Dichloroethene	1400	3	10		µg/L	10	11/23/2010 6:43:00 AM
trans-1,2-Dichloroethene	U	3	10		µg/L	10	11/23/2010 6:43:00 AM
Trichloroethene	59	3	10		µg/L	10	11/23/2010 6:43:00 AM
Vinyl chloride	180	3	10		µg/L	10	11/23/2010 6:43:00 AM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	10	11/23/2010 6:43:00 AM
Surr: Dibromofluoromethane	102	0	63-127		%REC	10	11/23/2010 6:43:00 AM
Surr: Toluene-d8	104	0	61-128		%REC	10	11/23/2010 6:43:00 AM

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American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-2, 23-26'
Lab Order:	1011233	**Collection Date:**	11/19/2010 2:05:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-13A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 7:07:00 AM
cis-1,2-Dichloroethene	24	0.3	1.0		µg/L	1	11/23/2010 7:07:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 7:07:00 AM
Trichloroethene	14	0.3	1.0		µg/L	1	11/23/2010 7:07:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/23/2010 7:07:00 AM
Surr: 4-Bromofluorobenzene	101	0	65-130		%REC	1	11/23/2010 7:07:00 AM
Surr: Dibromofluoromethane	104	0	63-127		%REC	1	11/23/2010 7:07:00 AM
Surr: Toluene-d8	107	0	61-128		%REC	1	11/23/2010 7:07:00 AM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-3, 5-8'
Lab Order:	1011233	**Collection Date:**	11/19/2010 2:50:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-14A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	3	10		µg/L	10	11/23/2010 7:31:00 AM
cis-1,2-Dichloroethene	U	3	10		µg/L	10	11/23/2010 7:31:00 AM
trans-1,2-Dichloroethene	U	3	10		µg/L	10	11/23/2010 7:31:00 AM
Trichloroethene	U	3	10		µg/L	10	11/23/2010 7:31:00 AM
Vinyl chloride	U	3	10		µg/L	10	11/23/2010 7:31:00 AM
Surr: 4-Bromofluorobenzene	106	0	65-130		%REC	10	11/23/2010 7:31:00 AM
Surr: Dibromofluoromethane	107	0	63-127		%REC	10	11/23/2010 7:31:00 AM
Surr: Toluene-d8	103	0	61-128		%REC	10	11/23/2010 7:31:00 AM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
	S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-3, 13-16'
Lab Order:	1011233	**Collection Date:**	11/19/2010 3:00:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-15A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 7:55:00 AM
cis-1,2-Dichloroethene	3600	3	10		µg/L	10	11/23/2010 10:04:00 PM
trans-1,2-Dichloroethene	15	0.3	1.0		µg/L	1	11/23/2010 7:55:00 AM
Trichloroethene	47	0.3	1.0		µg/L	1	11/23/2010 7:55:00 AM
Vinyl chloride	460	3	10		µg/L	10	11/23/2010 10:04:00 PM
Surr: 4-Bromofluorobenzene	105	0	65-130		%REC	10	11/23/2010 10:04:00 PM
Surr: 4-Bromofluorobenzene	103	0	65-130		%REC	1	11/23/2010 7:55:00 AM
Surr: Dibromofluoromethane	109	0	63-127		%REC	10	11/23/2010 10:04:00 PM
Surr: Dibromofluoromethane	102	0	63-127		%REC	1	11/23/2010 7:55:00 AM
Surr: Toluene-d8	106	0	61-128		%REC	10	11/23/2010 10:04:00 PM
Surr: Toluene-d8	100	0	61-128		%REC	1	11/23/2010 7:55:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	DS-3, 19-22'
Lab Order:	1011233	**Collection Date:**	11/19/2010 3:25:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-16A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 11:08:00 AM
cis-1,2-Dichloroethene	51	0.3	1.0		µg/L	1	11/24/2010 11:08:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 11:08:00 AM
Trichloroethene	20	0.3	1.0		µg/L	1	11/24/2010 11:08:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 11:08:00 AM
Surr: 4-Bromofluorobenzene	96.8	0	65-130		%REC	1	11/24/2010 11:08:00 AM
Surr: Dibromofluoromethane	104	0	63-127		%REC	1	11/24/2010 11:08:00 AM
Surr: Toluene-d8	109	0	61-128		%REC	1	11/24/2010 11:08:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	Trip Blank
Lab Order:	1011233	**Collection Date:**	11/18/2010
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1011233-17A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/23/2010 8:42:00 AM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 8:42:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 8:42:00 AM
Trichloroethene	U	0.3	1.0		µg/L	1	11/23/2010 8:42:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/23/2010 8:42:00 AM
Surr: 4-Bromofluorobenzene	102	0	65-130		%REC	1	11/23/2010 8:42:00 AM
Surr: Dibromofluoromethane	102	0	63-127		%REC	1	11/23/2010 8:42:00 AM
Surr: Toluene-d8	106	0	61-128		%REC	1	11/23/2010 8:42:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *24-Nov-10*

CLIENT: Kleinfelder
Work Order: 1011233
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID	V624LCS-112210aL	SampType:	LCS	TestCode:	8260breakdo	Units:	µg/L	Prep Date:	11/22/2010	RunNo:	54542
Client ID:	LCSW	Batch ID:	R54542	TestNo:	SW8260B			Analysis Date:	11/22/2010	SeqNo:	766508

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	41	1.0	50.00	0	82.2	36	141				
Tetrachloroethene	38	1.0	50.00	0	75.0	45	136				
trans-1,2-Dichloroethene	35	1.0	50.00	0	70.9	42	135				
Trichloroethene	38	1.0	50.00	0	75.3	43	140				
Vinyl chloride	51	1.0	50.00	0	102	35	142				
Surr: 4-Bromofluorobenzene	50		50.00		99.9	60	130				
Surr: Dibromofluoromethane	53		50.00		106	63	127				
Surr: Toluene-d8	53		50.00		106	61	128				

Sample ID	VBLK-112210aLW	SampType:	MBLK	TestCode:	8260breakdo	Units:	µg/L	Prep Date:	11/22/2010	RunNo:	54542
Client ID:	PBW	Batch ID:	R54542	TestNo:	SW8260B			Analysis Date:	11/22/2010	SeqNo:	766509

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		101	60	130				
Surr: Dibromofluoromethane	53		50.00		105	63	127				
Surr: Toluene-d8	52		50.00		104	61	128				

Sample ID	1011233-17AMS	SampType:	MS	TestCode:	8260breakdo	Units:	µg/L	Prep Date:		RunNo:	54542
Client ID:	Trip Blank	Batch ID:	R54542	TestNo:	SW8260B			Analysis Date:	11/23/2010	SeqNo:	766522

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	33	1.0	50.00	0	66.2	36	141				
trans-1,2-Dichloroethene	32	1.0	50.00	0	64.2	42	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011233
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID 1011233-17AMS	SampType: MS	TestCode: 8260breakdo	Units: µg/L	Prep Date:	RunNo: 54542
Client ID: Trip Blank	Batch ID: R54542	TestNo: SW8260B		Analysis Date: 11/23/2010	SeqNo: 766522

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	37	1.0	50.00	0	74.4	43	140				
Vinyl chloride	46	1.0	50.00	0	92.7	35	142				
Surr: 4-Bromofluorobenzene	51		50.00		103	60	130				
Surr: Dibromofluoromethane	53		50.00		107	63	127				
Surr: Toluene-d8	54		50.00		108	61	128				

Sample ID 1011233-17AMSD	SampType: MSD	TestCode: 8260breakdo	Units: µg/L	Prep Date:	RunNo: 54542
Client ID: Trip Blank	Batch ID: R54542	TestNo: SW8260B		Analysis Date: 11/23/2010	SeqNo: 766523

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	35	1.0	50.00	0	70.7	36	141	33.10	6.55	20	
trans-1,2-Dichloroethene	29	1.0	50.00	0	58.9	42	135	32.11	8.71	20	
Trichloroethene	33	1.0	50.00	0	65.3	43	140	37.21	13.0	20	
Vinyl chloride	45	1.0	50.00	0	89.8	35	142	46.36	3.16	20	
Surr: 4-Bromofluorobenzene	51		50.00		101	60	130		0	0	
Surr: Dibromofluoromethane	51		50.00		102	63	127		0	0	
Surr: Toluene-d8	52		50.00		104	61	128		0	0	

Sample ID V624LCS-112310LW	SampType: LCS	TestCode: 8260breakdo	Units: µg/L	Prep Date:	RunNo: 54542
Client ID: LCSW	Batch ID: R54542A	TestNo: SW8260B		Analysis Date: 11/23/2010	SeqNo: 766700

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	42	1.0	50.00	0	83.7	36	141				
Tetrachloroethene	39	1.0	50.00	0	77.5	45	136				
trans-1,2-Dichloroethene	36	1.0	50.00	0	72.5	42	135				
Trichloroethene	39	1.0	50.00	0	79.0	43	140				
Vinyl chloride	53	1.0	50.00	0	107	35	142				
Surr: 4-Bromofluorobenzene	48		50.00		96.5	60	130				
Surr: Dibromofluoromethane	52		50.00		104	63	127				
Surr: Toluene-d8	51		50.00		102	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011233
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID	VBLK-112310LW	SampType:	MBLK	TestCode:	8260breakdo	Units:	µg/L	Prep Date:		RunNo:	54542
Client ID:	PBW	Batch ID:	R54542A	TestNo:	SW8260B			Analysis Date:	11/23/2010	SeqNo:	766701

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		101	60	130				
Surr: Dibromofluoromethane	51		50.00		103	63	127				
Surr: Toluene-d8	53		50.00		105	61	128				

Sample ID	V624LCS-112310aL	SampType:	LCS	TestCode:	8260breakdo	Units:	µg/L	Prep Date:	11/23/2010	RunNo:	54542
Client ID:	LCSW	Batch ID:	R54542B	TestNo:	SW8260B			Analysis Date:	11/24/2010	SeqNo:	766975

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	41	1.0	50.00	0	82.4	36	141				
Tetrachloroethene	35	1.0	50.00	0	69.2	45	136				
trans-1,2-Dichloroethene	35	1.0	50.00	0	70.4	42	135				
Trichloroethene	38	1.0	50.00	0	75.2	43	140				
Vinyl chloride	52	1.0	50.00	0	105	35	142				
Surr: 4-Bromofluorobenzene	56		50.00		112	60	130				
Surr: Dibromofluoromethane	53		50.00		106	63	127				
Surr: Toluene-d8	51		50.00		103	61	128				

Sample ID	VBLK-112310aLW	SampType:	MBLK	TestCode:	8260breakdo	Units:	µg/L	Prep Date:	11/23/2010	RunNo:	54542
Client ID:	PBW	Batch ID:	R54542B	TestNo:	SW8260B			Analysis Date:	11/24/2010	SeqNo:	766982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011233
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID	VBLK-112310aLW	SampType:	MBLK	TestCode:	8260breakdo	Units:	µg/L	Prep Date:	11/23/2010	RunNo:	54542
Client ID:	PBW	Batch ID:	R54542B	TestNo:	SW8260B			Analysis Date:	11/24/2010	SeqNo:	766982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	47		50.00		94.2	60	130				
Surr: Dibromofluoromethane	52		50.00		104	63	127				
Surr: Toluene-d8	51		50.00		101	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Monday, December 06, 2010

Richard Swedborg
Kleinfelder
1 Corporate Dr., Suite 201
Bohemia, NY 11716

TEL: (631) 218-0612
FAX (631) 218-0787

RE: Commander Oil Terminal, Oyster Bay

Order No.: 1011264

Dear Richard Swedborg:

American Analytical Laboratories, LLC. received 8 sample(s) on 11/23/2010 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 21 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

CLIENT: Kleinfelder
Project: Commander Oil Terminal, Oyster Bay
Lab Order: 1011264

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1011264-01A	MW-22, 2-3'	11/22/2010 8:50:00 AM	11/23/2010
1011264-02A	MW-22, 6-7'	11/22/2010 9:25:00 AM	11/23/2010
1011264-03A	MW-21, 5.5-6.5'	11/22/2010 10:38:00 AM	11/23/2010
1011264-04A	MW-20, 3-4.5'	11/22/2010 11:35:00 AM	11/23/2010
1011264-05A	MW-20, 4.5-6.5'	11/22/2010 11:42:00 AM	11/23/2010
1011264-06A	SB-4, 4-7'	11/22/2010 1:08:00 PM	11/23/2010
1011264-07A	SB-3, 3-5'	11/22/2010 2:30:00 PM	11/23/2010
1011264-08A	Trip Blank	11/22/2010	11/23/2010

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS
KleinfelderLer
1 Cupsude Dr, Suite 201
Bohemia, NY, 11716

CONTACT: Richard Swedberg (631) 218-0612

SAMPLER (SIGNATURE)

SAMPLER NAME (PRINT) Zachary Halsey

SAMPLE(S) SEALED YES / NO

CORRECT CONTAINER(S) YES / NO

TEMPERATURE (° C) _____

PROJECT LOCATION: Commander Oil Terminal
1 Cupsuque Square
Oyster Bay, New York

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: *VOC 8260	MTBE
1011264-01A	SG	2	11/22/10	0850	MW-22, 2-3'	X	X
-02A	SG	2	11/22/10	0925	MW-22 6-7'	X	X
-03A	SG	2	11/22/10	1038	MW-21, 5.5-6.5'	X	X
-04A	SG	2	11/22/10	1135	MW-20, 3-4.5'	X	X
-05A	SG	2	11/22/10	1142	MW-20 4.5-6.5'	X	X
-06A	SG	2	11/22/10	1308	SB-4, 4-7'	X	X
-07A	SG	2	11/22/10	1430	SB-3, 3-5'	X	X
-08A	W	2	—	—	Trip Blank	X	X

COMMENTS / INSTRUCTIONS * Analyze for TCE, DCE, cis-1,2-dichloroethene, trans 1,2-dichloroethene, VC, benzene, toluene, ethylbenzene, xylenes, and MTBE via 8260

Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED
STANDARD ☑ STAT ☐ BY / /
(7-10 business days)

E-MAIL ADDRESS FOR RESULTS: rswedberg@kleinfelder.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
	11/23/10 1525	Zachary Halsey		11/23/10 1530	Cate Karr
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **KLEINFELDER** Date and Time Receive **11/23/2010 3:31:03 PM**

Work Order Numbe **1011264** RcptNo: **1** Received by **CB**

COC_ID: CoolerID:

Checklist completed by Signature 11/23/10 Date Reviewed by Initials 11/23/10 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments: Cooler with ice @ 1.6C

Corrective Action

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-22, 2-3'
Lab Order:	1011264	**Collection Date:**	11/22/2010 8:50:00 AM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	8.34	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.33	5.5		µg/Kg-dry	1	11/30/2010 2:56:00 AM
cis-1,2-Dichloroethene	22	0.33	5.5		µg/Kg-dry	1	11/30/2010 2:56:00 AM
trans-1,2-Dichloroethene	U	0.44	5.5		µg/Kg-dry	1	11/30/2010 2:56:00 AM
Trichloroethene	18	0.33	5.5		µg/Kg-dry	1	11/30/2010 2:56:00 AM
Vinyl chloride	1.5	0.33	5.5	J	µg/Kg-dry	1	11/30/2010 2:56:00 AM
Surr: 4-Bromofluorobenzene	90.5	0	61-135		%REC	1	11/30/2010 2:56:00 AM
Surr: Dibromofluoromethane	84.2	0	63-131		%REC	1	11/30/2010 2:56:00 AM
Surr: Toluene-d8	96.4	0	61-131		%REC	1	11/30/2010 2:56:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	0.32	5.3		µg/Kg-dry	1	11/30/2010 2:56:00 AM
Ethylbenzene	1.9	0.32	5.3	J	µg/Kg-dry	1	11/30/2010 2:56:00 AM
m,p-Xylene	2.8	0.32	11	J	µg/Kg-dry	1	11/30/2010 2:56:00 AM
Methyl tert-butyl ether	U	0.32	5.3		µg/Kg-dry	1	11/30/2010 2:56:00 AM
o-Xylene	2.4	0.32	5.3	J	µg/Kg-dry	1	11/30/2010 2:56:00 AM
Toluene	U	0.32	5.3		µg/Kg-dry	1	11/30/2010 2:56:00 AM
Surr: 4-Bromofluorobenzene	90.5	0	63-127		%REC	1	11/30/2010 2:56:00 AM
Surr: Toluene-d8	96.4	0	62-128		%REC	1	11/30/2010 2:56:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-22, 6-7'
Lab Order:	1011264	**Collection Date:**	11/22/2010 9:25:00 AM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			D2216				Analyst: CB
Percent Moisture	17.6	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			SW8260B				Analyst: LA
1,2-Dichloroethane	U	0.36	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
cis-1,2-Dichloroethene	U	0.36	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Tetrachloroethene	U	0.49	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
trans-1,2-Dichloroethene	U	0.49	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Trichloroethene	U	0.36	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Vinyl chloride	U	0.36	6.1		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Surr: 4-Bromofluorobenzene	93.9	0	61-135		%REC	1	11/30/2010 3:19:00 AM
Surr: Dibromofluoromethane	91.6	0	63-131		%REC	1	11/30/2010 3:19:00 AM
Surr: Toluene-d8	99.9	0	61-131		%REC	1	11/30/2010 3:19:00 AM
VOLATILE BTEX/MTBE BY 8260			SW8260				Analyst: LA
Benzene	U	0.36	6.0		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Ethylbenzene	U	0.36	6.0		µg/Kg-dry	1	11/30/2010 3:19:00 AM
m,p-Xylene	U	0.36	12		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Methyl tert-butyl ether	U	0.36	6.0		µg/Kg-dry	1	11/30/2010 3:19:00 AM
o-Xylene	U	0.36	6.0		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Toluene	U	0.36	6.0		µg/Kg-dry	1	11/30/2010 3:19:00 AM
Surr: 4-Bromofluorobenzene	93.9	0	63-127		%REC	1	11/30/2010 3:19:00 AM
Surr: Toluene-d8	99.9	0	62-128		%REC	1	11/30/2010 3:19:00 AM

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-21, 5.5-6.5'
Lab Order:	1011264	**Collection Date:**	11/22/2010 10:38:00 AM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	40.8	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
cis-1,2-Dichloroethene	24000	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
trans-1,2-Dichloroethene	U	84.5	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Trichloroethene	U	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Vinyl chloride	36000	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Surr: 4-Bromofluorobenzene	111	0	61-135		%REC	125	11/30/2010 3:44:00 AM
Surr: Dibromofluoromethane	105	0	63-131		%REC	125	11/30/2010 3:44:00 AM
Surr: Toluene-d8	103	0	61-131		%REC	125	11/30/2010 3:44:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	830	63.4	1100	J	µg/Kg-dry	125	11/30/2010 3:44:00 AM
Ethylbenzene	3400	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
m,p-Xylene	5500	63.4	2100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Methyl tert-butyl ether	310	63.4	1100	J	µg/Kg-dry	125	11/30/2010 3:44:00 AM
o-Xylene	3600	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Toluene	6000	63.4	1100		µg/Kg-dry	125	11/30/2010 3:44:00 AM
Surr: 4-Bromofluorobenzene	111	0	63-127		%REC	125	11/30/2010 3:44:00 AM
Surr: Toluene-d8	103	0	62-128		%REC	125	11/30/2010 3:44:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-20, 3-4.5'
Lab Order:	1011264	**Collection Date:**	11/22/2010 11:35:00 AM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	20.6	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
cis-1,2-Dichloroethene	350	47.3	790	J	µg/Kg-dry	125	11/30/2010 4:08:00 AM
Tetrachloroethene	U	63.0	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
trans-1,2-Dichloroethene	U	63.0	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Trichloroethene	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Vinyl chloride	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Surr: 4-Bromofluorobenzene	115	0	61-135		%REC	125	11/30/2010 4:08:00 AM
Surr: Dibromofluoromethane	99.3	0	63-131		%REC	125	11/30/2010 4:08:00 AM
Surr: Toluene-d8	101	0	61-131		%REC	125	11/30/2010 4:08:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Ethylbenzene	60	47.3	790	J	µg/Kg-dry	125	11/30/2010 4:08:00 AM
m,p-Xylene	U	47.3	1600		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Methyl tert-butyl ether	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
o-Xylene	130	47.3	790	J	µg/Kg-dry	125	11/30/2010 4:08:00 AM
Toluene	U	47.3	790		µg/Kg-dry	125	11/30/2010 4:08:00 AM
Surr: 4-Bromofluorobenzene	115	0	63-127		%REC	125	11/30/2010 4:08:00 AM
Surr: Toluene-d8	101	0	62-128		%REC	125	11/30/2010 4:08:00 AM

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J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-20, 4.5-6.5'
Lab Order:	1011264	**Collection Date:**	11/22/2010 11:42:00 AM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-05A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	20.9	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
cis-1,2-Dichloroethene	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
trans-1,2-Dichloroethene	U	63.2	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
Trichloroethene	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
Vinyl chloride	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
Surr: 4-Bromofluorobenzene	107	0	61-135		%REC	125	11/30/2010 4:30:00 AM
Surr: Dibromofluoromethane	96.7	0	63-131		%REC	125	11/30/2010 4:30:00 AM
Surr: Toluene-d8	98.4	0	61-131		%REC	125	11/30/2010 4:30:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
Ethylbenzene	240	47.4	790	J	µg/Kg-dry	125	11/30/2010 4:30:00 AM
m,p-Xylene	460	47.4	1600	J	µg/Kg-dry	125	11/30/2010 4:30:00 AM
Methyl tert-butyl ether	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
o-Xylene	330	47.4	790	J	µg/Kg-dry	125	11/30/2010 4:30:00 AM
Toluene	U	47.4	790		µg/Kg-dry	125	11/30/2010 4:30:00 AM
Surr: 4-Bromofluorobenzene	107	0	63-127		%REC	125	11/30/2010 4:30:00 AM
Surr: Toluene-d8	98.4	0	62-128		%REC	125	11/30/2010 4:30:00 AM

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Qualifiers:

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S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	SB-4, 4-7'
Lab Order:	1011264	**Collection Date:**	11/22/2010 1:08:00 PM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-06A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	40.9	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
cis-1,2-Dichloroethene	41000	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
trans-1,2-Dichloroethene	U	425	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Trichloroethene	1600000	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Vinyl chloride	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Surr: 4-Bromofluorobenzene	98.4	0	61-135		%REC	625	12/3/2010 4:05:00 AM
Surr: Dibromofluoromethane	104	0	63-131		%REC	625	12/3/2010 4:05:00 AM
Surr: Toluene-d8	101	0	61-131		%REC	625	12/3/2010 4:05:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Ethylbenzene	990	319	5300	J	µg/Kg-dry	625	12/3/2010 4:05:00 AM
m,p-Xylene	1500	319	11000	J	µg/Kg-dry	625	12/3/2010 4:05:00 AM
Methyl tert-butyl ether	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
o-Xylene	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Toluene	U	319	5300		µg/Kg-dry	625	12/3/2010 4:05:00 AM
Surr: 4-Bromofluorobenzene	98.4	0	63-127		%REC	625	12/3/2010 4:05:00 AM
Surr: Toluene-d8	101	0	62-128		%REC	625	12/3/2010 4:05:00 AM

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	SB-3, 3-5'
Lab Order:	1011264	**Collection Date:**	11/22/2010 2:30:00 PM
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	SOIL
Lab ID:	1011264-07A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			**D2216**				Analyst: **CB**
Percent Moisture	25.2	0	0		wt%	1	11/24/2010
VOLATILE SW-846 METHOD 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
cis-1,2-Dichloroethene	160000	251	4200		µg/Kg-dry	625	12/3/2010 4:30:00 AM
trans-1,2-Dichloroethene	590	66.9	840	J	µg/Kg-dry	125	11/30/2010 5:20:00 AM
Trichloroethene	6100000	251	4200		µg/Kg-dry	625	12/3/2010 4:30:00 AM
Vinyl chloride	1500	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
Surr: 4-Bromofluorobenzene	101	0	61-135		%REC	125	11/30/2010 5:20:00 AM
Surr: 4-Bromofluorobenzene	103	0	61-135		%REC	625	12/3/2010 4:30:00 AM
Surr: Dibromofluoromethane	99.1	0	63-131		%REC	125	11/30/2010 5:20:00 AM
Surr: Dibromofluoromethane	101	0	63-131		%REC	625	12/3/2010 4:30:00 AM
Surr: Toluene-d8	596	0	61-131	S	%REC	125	11/30/2010 5:20:00 AM
Surr: Toluene-d8	74.1	0	61-131		%REC	625	12/3/2010 4:30:00 AM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	4800	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
Ethylbenzene	15000	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
m,p-Xylene	47000	50.1	1700		µg/Kg-dry	125	11/30/2010 5:20:00 AM
Methyl tert-butyl ether	U	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
o-Xylene	16000	50.1	840		µg/Kg-dry	125	11/30/2010 5:20:00 AM
Toluene	37000	251	4200		µg/Kg-dry	625	12/3/2010 4:30:00 AM
Surr: 4-Bromofluorobenzene	103	0	63-127		%REC	625	12/3/2010 4:30:00 AM
Surr: 4-Bromofluorobenzene	101	0	63-127		%REC	125	11/30/2010 5:20:00 AM
Surr: Toluene-d8	596	0	62-128	S	%REC	125	11/30/2010 5:20:00 AM
Surr: Toluene-d8	74.1	0	62-128		%REC	625	12/3/2010 4:30:00 AM

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Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *06-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	Trip Blank
Lab Order:	1011264	**Collection Date:**	11/22/2010
Project:	Commander Oil Terminal, Oyster Bay	**Matrix:**	LIQUID
Lab ID:	1011264-08A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Vinyl chloride	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Surr: 4-Bromofluorobenzene	94.1	0	65-130		%REC	1	11/24/2010 7:30:00 PM
Surr: Dibromofluoromethane	122	0	63-127		%REC	1	11/24/2010 7:30:00 PM
Surr: Toluene-d8	102	0	61-128		%REC	1	11/24/2010 7:30:00 PM
VOLATILE BTEX/MTBE BY 8260			**SW8260**				Analyst: **LA**
Benzene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Ethylbenzene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
m,p-Xylene	U	0.3	2.0	C	µg/L	1	11/24/2010 7:30:00 PM
Methyl tert-butyl ether	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
o-Xylene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Toluene	U	0.3	1.0		µg/L	1	11/24/2010 7:30:00 PM
Surr: 4-Bromofluorobenzene	94.1	0	60-130		%REC	1	11/24/2010 7:30:00 PM
Surr: Toluene-d8	102	0	61-128		%REC	1	11/24/2010 7:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-112910aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696** TestNo: **SW8260B** Analysis Date: **11/29/2010** SeqNo: **768564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	33	5.0	50.00	0	65.1	30	130				
Tetrachloroethene	33	5.0	50.00	0	65.6	20	120				
trans-1,2-Dichloroethene	34	5.0	50.00	0	68.4	20	120				
Trichloroethene	36	5.0	50.00	0	71.5	23	121				
Vinyl chloride	56	5.0	50.00	0	111	30	130				
Surr: 4-Bromofluorobenzene	49		50.00		97.2	61	135				
Surr: Dibromofluoromethane	51		50.00		102	63	131				
Surr: Toluene-d8	50		50.00		99.8	61	131				

Sample ID: **VBLK-112910aYS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696** TestNo: **SW8260B** Analysis Date: **11/30/2010** SeqNo: **768565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	47		50.00		94.8	61	135				
Surr: Dibromofluoromethane	49		50.00		98.4	63	131				
Surr: Toluene-d8	49		50.00		98.8	61	131				

Sample ID: **V624LCS-112910aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696b** TestNo: **SW8260B** Analysis Date: **11/29/2010** SeqNo: **768576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	34	5.0	50.00	0	68.8	30	130				
Tetrachloroethene	35	5.0	50.00	0	71.0	20	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-112910aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696b** TestNo: **SW8260B** Analysis Date: **11/29/2010** SeqNo: **768576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	32	5.0	50.00	0	64.0	20	120				
Trichloroethene	39	5.0	50.00	0	77.5	23	121				
Vinyl chloride	52	5.0	50.00	0	104	30	130				
Surr: 4-Bromofluorobenzene	49		50.00		98.0	61	135				
Surr: Dibromofluoromethane	49		50.00		98.6	63	131				
Surr: Toluene-d8	49		50.00		98.2	61	131				

Sample ID: **VBLK-112910aYS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696b** TestNo: **SW8260B** Analysis Date: **11/30/2010** SeqNo: **768577**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	49		50.00		98.1	61	135				
Surr: Dibromofluoromethane	50		50.00		99.3	63	131				
Surr: Toluene-d8	48		50.00		95.3	61	131				

Sample ID: **V624LCS-120210aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696d** TestNo: **SW8260B** Analysis Date: **12/3/2010** SeqNo: **769653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	39	5.0	50.00	0	78.8	30	130				
Tetrachloroethene	30	5.0	50.00	0	59.4	20	120				
trans-1,2-Dichloroethene	38	5.0	50.00	0	75.4	20	120				
Trichloroethene	40	5.0	50.00	0	79.9	23	121				
Vinyl chloride	51	5.0	50.00	0	102	30	130				
Surr: 4-Bromofluorobenzene	48		50.00		96.8	61	135				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **V624LCS-120210aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696d** TestNo: **SW8260B** Analysis Date: **12/3/2010** SeqNo: **769653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	53		50.00		105	63	131				
Surr: Toluene-d8	51		50.00		102	61	131				

Sample ID: **VBLK-120210aYS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696d** TestNo: **SW8260B** Analysis Date: **12/3/2010** SeqNo: **769654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.1	61	135				
Surr: Dibromofluoromethane	58		50.00		115	63	131				
Surr: Toluene-d8	51		50.00		101	61	131				

Sample ID: **V624LCS-120210aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696f** TestNo: **SW8260B** Analysis Date: **12/3/2010** SeqNo: **769659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	35	5.0	50.00	0	70.4	30	130				
Tetrachloroethene	31	5.0	50.00	0	62.1	20	120				
trans-1,2-Dichloroethene	38	5.0	50.00	0	76.3	20	120				
Trichloroethene	40	5.0	50.00	0	80.4	23	121				
Vinyl chloride	49	5.0	50.00	0	97.8	30	130				
Surr: 4-Bromofluorobenzene	48		50.00		95.7	61	135				
Surr: Dibromofluoromethane	50		50.00		100	63	131				
Surr: Toluene-d8	52		50.00		105	61	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_Soil

Sample ID: **VBLK-120210aYS** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/Kg** Prep Date: RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696f** TestNo: **SW8260B** Analysis Date: **12/3/2010** SeqNo: **769660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
trans-1,2-Dichloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	5.0									
Surr: 4-Bromofluorobenzene	47		50.00		94.4	61	135				
Surr: Dibromofluoromethane	51		50.00		103	63	131				
Surr: Toluene-d8	53		50.00		106	61	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-112410HW** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/24/2010** RunNo: **54620**
Client ID: **LCSW** Batch ID: **R54620** TestNo: **SW8260B** Analysis Date: **11/24/2010** SeqNo: **767503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	55	1.0	50.00	0	111	36	141				
Tetrachloroethene	48	1.0	50.00	0	95.1	45	136				
trans-1,2-Dichloroethene	36	1.0	50.00	0	71.8	42	135				
Trichloroethene	47	1.0	50.00	0	93.5	43	140				
Vinyl chloride	53	1.0	50.00	0	106	35	142				
Surr: 4-Bromofluorobenzene	50		50.00		99.6	60	130				
Surr: Dibromofluoromethane	46		50.00		91.3	63	127				
Surr: Toluene-d8	51		50.00		102	61	128				

Sample ID: **VBLK-112410HW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **11/24/2010** RunNo: **54620**
Client ID: **PBW** Batch ID: **R54620** TestNo: **SW8260B** Analysis Date: **11/24/2010** SeqNo: **767504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.8	60	130				
Surr: Dibromofluoromethane	59		50.00		118	63	127				
Surr: Toluene-d8	52		50.00		105	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEXMTBE_W

Sample ID: **V624LCS-112410HW** SampType: **LCS** TestCode: **BTEXMTBE_** Units: **µg/L** Prep Date: **11/24/2010** RunNo: **54620**
Client ID: **LCSW** Batch ID: **R54620A** TestNo: **SW8260** Analysis Date: **11/24/2010** SeqNo: **767506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37	1.0	50.00	0	74.3	45	144				
Ethylbenzene	55	1.0	50.00	0	110	45	146				
Toluene	50	1.0	50.00	0	99.8	43	134				
Surr: 4-Bromofluorobenzene	50		50.00		99.6	60	130				
Surr: Toluene-d8	51		50.00		102	61	128				

Sample ID: **VBLK-112410HW** SampType: **MBLK** TestCode: **BTEXMTBE_** Units: **µg/L** Prep Date: **11/24/2010** RunNo: **54620**
Client ID: **PBW** Batch ID: **R54620A** TestNo: **SW8260** Analysis Date: **11/24/2010** SeqNo: **767507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	1.0									
Ethylbenzene	U	1.0									
m,p-Xylene	U	2.0									C
Methyl tert-butyl ether	U	1.0									
o-Xylene	U	1.0									
Toluene	U	1.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.8	60	130				
Surr: Toluene-d8	52		50.00		105	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: DryBTEXMTBE

Sample ID: **V624LCS-112910aY** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **11/29/2010** RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696a** TestNo: **SW8260** Analysis Date: **11/29/2010** SeqNo: **768570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	35	5.0	50.00	0	69.5	30	130				
Ethylbenzene	36	5.0	50.00	0	71.6	15	130				
Toluene	36	5.0	50.00	0	71.5	20	119				
Surr: 4-Bromofluorobenzene	49		50.00		97.2	61	133				
Surr: Toluene-d8	50		50.00		99.8	57	131				

Sample ID: **VBLK-112910aYS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **11/29/2010** RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696a** TestNo: **SW8260** Analysis Date: **11/30/2010** SeqNo: **768571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	47		50.00		94.8	63	127				
Surr: Toluene-d8	49		50.00		98.8	62	128				

Sample ID: **V624LCS-112910aY** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **11/29/2010** RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696c** TestNo: **SW8260** Analysis Date: **11/29/2010** SeqNo: **768580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	35	5.0	50.00	0	70.9	30	130				
Ethylbenzene	39	5.0	50.00	0	77.9	15	130				
Toluene	38	5.0	50.00	0	75.6	20	119				
Surr: 4-Bromofluorobenzene	49		50.00		98.0	61	133				
Surr: Toluene-d8	49		50.00		98.2	57	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: DryBTEXMTBE

Sample ID: **VBLK-112910aYS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **11/29/2010** RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696c** TestNo: **SW8260** Analysis Date: **11/30/2010** SeqNo: **768581**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	49		50.00		98.1	63	127				
Surr: Toluene-d8	48		50.00		95.3	62	128				

Sample ID: **V624LCS-120210aY** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **12/2/2010** RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696e** TestNo: **SW8260** Analysis Date: **12/3/2010** SeqNo: **769656**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39	5.0	50.00	0	77.3	30	130				
Ethylbenzene	38	5.0	50.00	0	75.7	15	130				
Toluene	39	5.0	50.00	0	78.5	20	119				
Surr: 4-Bromofluorobenzene	48		50.00		96.8	61	133				
Surr: Toluene-d8	51		50.00		102	57	131				

Sample ID: **VBLK-120210aYS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **12/2/2010** RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696e** TestNo: **SW8260** Analysis Date: **12/3/2010** SeqNo: **769657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.1	63	127				
Surr: Toluene-d8	51		50.00		101	62	128				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1011264
Project: Commander Oil Terminal, Oyster Bay

ANALYTICAL QC SUMMARY REPORT

TestCode: DryBTEXMTBE

Sample ID: **V624LCS-120210aY** SampType: **LCS** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **12/2/2010** RunNo: **54696**
Client ID: **LCSS** Batch ID: **R54696g** TestNo: **SW8260** Analysis Date: **12/3/2010** SeqNo: **769662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37	5.0	50.00	0	74.6	30	130				
Ethylbenzene	38	5.0	50.00	0	75.8	15	130				
Toluene	39	5.0	50.00	0	77.8	20	119				
Surr: 4-Bromofluorobenzene	48		50.00		95.7	61	133				
Surr: Toluene-d8	52		50.00		105	57	131				

Sample ID: **VBLK-120210aYS** SampType: **MBLK** TestCode: **DryBTEXMTB** Units: **µg/Kg** Prep Date: **12/2/2010** RunNo: **54696**
Client ID: **PBS** Batch ID: **R54696g** TestNo: **SW8260** Analysis Date: **12/3/2010** SeqNo: **769663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	5.0									
Ethylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
o-Xylene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	47		50.00		94.4	63	127				
Surr: Toluene-d8	53		50.00		106	62	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

AMERICAN ANALYTICAL LABORATORIES

NYSDOH 11418
NJDEP NY050
CTDOH PH-0205
PADEP 68-00573

Thursday, December 16, 2010

Richard Swedborg
Kleinfelder
1 Corporate Dr., Suite 201
Bohemia, NY 11716

TEL: (631) 218-0612
FAX (631) 218-0787

RE: Commander Oil Terminal, One Commander

Order No.: 1012074

Dear Richard Swedborg:

American Analytical Laboratories, LLC. received 4 sample(s) on 12/7/2010 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 12 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

CLIENT: Kleinfelder
Project: Commander Oil Terminal, One Commander Squ
Lab Order: 1012074

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1012074-01A	MW-20	12/7/2010 12:18:00 PM	12/7/2010
1012074-02A	MW-21	12/7/2010 12:40:00 PM	12/7/2010
1012074-03A	MW-22	12/7/2010 12:54:00 PM	12/7/2010
1012074-04A	Trip Blank	12/7/2010	12/7/2010

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735
(631) 454-6100 • FAX (631) 454-8027
www.american-analytical.com

NYSDOH	11418
CTDOH	PH-0205
NJDEP	NY050
PADEP	68-573

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS
KleinSelder
One Corporate Dr, Suite 201
Bohemia, NY 11716

CONTACT:
Richard Sweedburg
(631) 218-0012

SAMPLER (SIGNATURE)

SAMPLER NAME (PRINT)
Zachary Habey

SAMPLE(S) SEALED — YES / NO
CORRECT CONTAINER(S) — YES / NO
TEMPERATURE (° C) _____

PROJECT LOCATION:
Commander 0.1 Terminal
One Commander Square
Oyster Bay, New York

LABORATORY ID# LAB USE ONLY	MATRIX/ TYPE	NO. OF CONTAINERS	SAMPLING DATE	SAMPLING TIME	SAMPLE # - LOCATION	ANALYSIS REQUIRED: CVOCs 8260
1012074-01A	WG	2	12/7/10	1218	MW-20	X
-02A	WG	2	12/7/10	1240	MW-21	X
-03A	WG	2	12/7/10	1254	MW-22	X
-04A	W	2	—	—	Trip Blank	X

COMMENTS / INSTRUCTIONS
Analyze for: CVOCs - TCE, DCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and VC

Samples must be on ICE (<6° C)

MATRIX S=SOIL; W=WATER; SL=SLUDGE; A=AIR; M=MISCELLANEOUS
TYPE G=GRAB; C=COMPOSITE

TURNAROUND REQUIRED
STANDARD ☑ STAT ☐ BY / /
(7-10 business days)

E-MAIL ADDRESS FOR RESULTS:
rsweedburg@KleinSelder.com

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
	12/7/10 1415	Zachary Habey		12/7/10 1415	Cate Barr
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

WHITE-OFFICE / CANARY-LAB / PINK-SAMPLE CUSTODIAN / GOLDENROD-CLIENT

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **KLEINFELDER** Date and Time Receive **12/7/2010 2:17:25 PM**

Work Order Numbe **1012074** RcptNo: **1** Received by **CB**

COC_ID: CoolerID:

Checklist completed by Signature 12/07/10 Date Reviewed by Initials 12/7/10 Date

Matrix: Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments: Cooler with ice @ 1.1C

Corrective Action

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-20
Lab Order:	1012074	**Collection Date:**	12/7/2010 12:18:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1012074-01A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: LA
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	12/13/2010 7:00:00 PM
cis-1,2-Dichloroethene	6.9	0.3	1.0		µg/L	1	12/13/2010 7:00:00 PM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	12/13/2010 7:00:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	12/13/2010 7:00:00 PM
Vinyl chloride	8.0	0.3	1.0		µg/L	1	12/13/2010 7:00:00 PM
Surr: 4-Bromofluorobenzene	104	0	65-130		%REC	1	12/13/2010 7:00:00 PM
Surr: Dibromofluoromethane	109	0	63-127		%REC	1	12/13/2010 7:00:00 PM
Surr: Toluene-d8	102	0	61-128		%REC	1	12/13/2010 7:00:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-21
Lab Order:	1012074	**Collection Date:**	12/7/2010 12:40:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1012074-02A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	12/13/2010 7:25:00 PM
cis-1,2-Dichloroethene	2800	15	50		µg/L	50	12/15/2010 9:54:00 AM
trans-1,2-Dichloroethene	32	0.3	1.0		µg/L	1	12/13/2010 7:25:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	12/13/2010 7:25:00 PM
Vinyl chloride	6400	15	50		µg/L	50	12/15/2010 9:54:00 AM
Surr: 4-Bromofluorobenzene	99.9	0	65-130		%REC	50	12/15/2010 9:54:00 AM
Surr: 4-Bromofluorobenzene	114	0	65-130		%REC	1	12/13/2010 7:25:00 PM
Surr: Dibromofluoromethane	97.5	0	63-127		%REC	50	12/15/2010 9:54:00 AM
Surr: Dibromofluoromethane	96.6	0	63-127		%REC	1	12/13/2010 7:25:00 PM
Surr: Toluene-d8	104	0	61-128		%REC	50	12/15/2010 9:54:00 AM
Surr: Toluene-d8	107	0	61-128		%REC	1	12/13/2010 7:25:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, NY, Zip - 11735
Tel - 6314546100 Fax - 6314548027 www.American-Analytical.com

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	MW-22
Lab Order:	1012074	**Collection Date:**	12/7/2010 12:54:00 PM
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1012074-03A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	12/13/2010 7:51:00 PM
cis-1,2-Dichloroethene	110	0.3	1.0		µg/L	1	12/13/2010 7:51:00 PM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	12/13/2010 7:51:00 PM
Trichloroethene	U	0.3	1.0		µg/L	1	12/13/2010 7:51:00 PM
Vinyl chloride	730	6	20		µg/L	20	12/15/2010 9:29:00 AM
Surr: 4-Bromofluorobenzene	111	0	65-130		%REC	20	12/15/2010 9:29:00 AM
Surr: 4-Bromofluorobenzene	108	0	65-130		%REC	1	12/13/2010 7:51:00 PM
Surr: Dibromofluoromethane	97.8	0	63-127		%REC	20	12/15/2010 9:29:00 AM
Surr: Dibromofluoromethane	90.1	0	63-127		%REC	1	12/13/2010 7:51:00 PM
Surr: Toluene-d8	98.5	0	61-128		%REC	20	12/15/2010 9:29:00 AM
Surr: Toluene-d8	96.8	0	61-128		%REC	1	12/13/2010 7:51:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

ELAP ID : 11418

CLIENT:	Kleinfelder	**Client Sample ID:**	Trip Blank
Lab Order:	1012074	**Collection Date:**	12/7/2010
Project:	Commander Oil Terminal, One Commander Squ	**Matrix:**	LIQUID
Lab ID:	1012074-04A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE BY METHOD SW-846 8260			**SW8260B**				Analyst: **LA**
1,2-Dichloroethane	U	0.3	1.0		µg/L	1	12/15/2010 9:06:00 AM
cis-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	12/15/2010 9:06:00 AM
trans-1,2-Dichloroethene	U	0.3	1.0		µg/L	1	12/15/2010 9:06:00 AM
Trichloroethene	U	0.3	1.0		µg/L	1	12/15/2010 9:06:00 AM
Vinyl chloride	U	0.3	1.0		µg/L	1	12/15/2010 9:06:00 AM
Surr: 4-Bromofluorobenzene	96.5	0	65-130		%REC	1	12/15/2010 9:06:00 AM
Surr: Dibromofluoromethane	99.8	0	63-127		%REC	1	12/15/2010 9:06:00 AM
Surr: Toluene-d8	101	0	61-128		%REC	1	12/15/2010 9:06:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC columns
S	Spike Recovery outside accepted recovery limits	U	Indicates the compound was analyzed but not detected.

American Analytical Laboratories, LLC.

Date: *16-Dec-10*

CLIENT: Kleinfelder
Work Order: 1012074
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-121310aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: RunNo: **55065**
Client ID: **LCSW** Batch ID: **R55065** TestNo: **SW8260B** Analysis Date: **12/13/2010** SeqNo: **774091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	53	1.0	50.00	0	106	36	141				
Tetrachloroethene	46	1.0	50.00	0	91.3	45	136				
trans-1,2-Dichloroethene	40	1.0	50.00	0	80.9	42	135				
Trichloroethene	49	1.0	50.00	0	98.0	43	140				
Vinyl chloride	51	1.0	50.00	0	102	35	142				
Surr: 4-Bromofluorobenzene	49		50.00		98.5	60	130				
Surr: Dibromofluoromethane	51		50.00		102	63	127				
Surr: Toluene-d8	51		50.00		103	61	128				

Sample ID: **VBLK-121310aYW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: RunNo: **55065**
Client ID: **PBW** Batch ID: **R55065** TestNo: **SW8260B** Analysis Date: **12/13/2010** SeqNo: **774092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	53		50.00		106	60	130				
Surr: Dibromofluoromethane	53		50.00		106	63	127				
Surr: Toluene-d8	51		50.00		103	61	128				

Sample ID: **V624LCS-121310aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: RunNo: **55065**
Client ID: **LCSW** Batch ID: **R55065A** TestNo: **SW8260B** Analysis Date: **12/13/2010** SeqNo: **774095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	44	1.0	50.00	0	87.1	36	141				
Tetrachloroethene	39	1.0	50.00	0	79.0	45	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1012074
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **V624LCS-121310aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: RunNo: **55065**
Client ID: **LCSW** Batch ID: **R55065A** TestNo: **SW8260B** Analysis Date: **12/13/2010** SeqNo: **774095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	37	1.0	50.00	0	73.9	42	135				
Trichloroethene	43	1.0	50.00	0	85.6	43	140				
Vinyl chloride	49	1.0	50.00	0	98.1	35	142				
Surr: 4-Bromofluorobenzene	52		50.00		103	60	130				
Surr: Dibromofluoromethane	50		50.00		99.4	63	127				
Surr: Toluene-d8	52		50.00		103	61	128				

Sample ID: **VBLK-121310aYW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: RunNo: **55065**
Client ID: **PBW** Batch ID: **R55065A** TestNo: **SW8260B** Analysis Date: **12/13/2010** SeqNo: **774096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	52		50.00		105	60	130				
Surr: Dibromofluoromethane	50		50.00		99.6	63	127				
Surr: Toluene-d8	53		50.00		107	61	128				

Sample ID: **V624LCS-121410aY** SampType: **LCS** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **12/14/2010** RunNo: **55065**
Client ID: **LCSW** Batch ID: **R55065B** TestNo: **SW8260B** Analysis Date: **12/15/2010** SeqNo: **774098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	38	1.0	50.00	0	76.2	36	141				
Tetrachloroethene	32	1.0	50.00	0	64.1	45	136				
trans-1,2-Dichloroethene	35	1.0	50.00	0	70.4	42	135				
Trichloroethene	38	1.0	50.00	0	76.2	43	140				
Vinyl chloride	46	1.0	50.00	0	92.1	35	142				
Surr: 4-Bromofluorobenzene	52		50.00		104	60	130				

Qualifiers:
B Analyte detected in the associated Method Blank
C Calibration %RSD/%D exceeded for non-CCC analytes
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
LOD Limit of Detection
LOQ Limit of Quantitation
P >40% diff for detected conc between the two GC column
R RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1012074
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: V624LCS-121410aY	SampType: LCS	TestCode: 8260breakdo	Units: µg/L	Prep Date: 12/14/2010	RunNo: 55065
Client ID: LCSW	Batch ID: R55065B	TestNo: SW8260B		Analysis Date: 12/15/2010	SeqNo: 774098

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	52		50.00		105	63	127				
Surr: Toluene-d8	51		50.00		103	61	128				

Sample ID: VBLK-121410aYW	SampType: MBLK	TestCode: 8260breakdo	Units: µg/L	Prep Date: 12/14/2010	RunNo: 55065
Client ID: PBW	Batch ID: R55065B	TestNo: SW8260B		Analysis Date: 12/15/2010	SeqNo: 774099

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	53		50.00		105	60	130				
Surr: Dibromofluoromethane	49		50.00		98.4	63	127				
Surr: Toluene-d8	51		50.00		101	61	128				

Sample ID: V624LCS-121410aY	SampType: LCS	TestCode: 8260breakdo	Units: µg/L	Prep Date: 12/14/2010	RunNo: 55065
Client ID: LCSW	Batch ID: R55065C	TestNo: SW8260B		Analysis Date: 12/15/2010	SeqNo: 774102

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	37	1.0	50.00	0	73.7	36	141				
Tetrachloroethene	31	1.0	50.00	0	62.9	45	136				
trans-1,2-Dichloroethene	37	1.0	50.00	0	73.5	42	135				
Trichloroethene	36	1.0	50.00	0	71.9	43	140				
Vinyl chloride	45	1.0	50.00	0	90.7	35	142				
Surr: 4-Bromofluorobenzene	53		50.00		106	60	130				
Surr: Dibromofluoromethane	53		50.00		106	63	127				
Surr: Toluene-d8	50		50.00		101	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 1012074
Project: Commander Oil Terminal, One Commander Squ

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260breakdown_W

Sample ID: **VBLK-121410aYW** SampType: **MBLK** TestCode: **8260breakdo** Units: **µg/L** Prep Date: **12/14/2010** RunNo: **55065**
Client ID: **PBW** Batch ID: **R55065C** TestNo: **SW8260B** Analysis Date: **12/15/2010** SeqNo: **774103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	U	1.0									
cis-1,2-Dichloroethene	U	1.0									
Tetrachloroethene	U	1.0									
trans-1,2-Dichloroethene	U	1.0									
Trichloroethene	U	1.0									
Vinyl chloride	U	1.0									
Surr: 4-Bromofluorobenzene	53		50.00		105	60	130				
Surr: Dibromofluoromethane	49		50.00		98.4	63	127				
Surr: Toluene-d8	51		50.00		101	61	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calibration %RSD/%D exceeded for non-CCC analytes	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	LOD	Limit of Detection
LOQ	Limit of Quantitation	P	>40% diff for detected conc between the two GC column	R	RPD outside accepted recovery limits

APPENDIX C

Waste Disposal Documentation

TKF-511

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD 980523146
2. Page 1 of: 1
3. Emergency Response Phone: 1-800-262-8200
4. Manifest Tracking Number: 000186650 JJK

GENERATOR

5. Generator's Name and Mailing Address
COMMANDER TERMINAL HOLDINGS, LLC
1 COMMANDER SQUARE, OYSTER BAY NY 11771

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: HORWITH TRUCKS, INC
U.S. EPA ID Number: PAD 146 714 878

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES LLC
1550 BALMER ROAD, MODEL CITY NY 14107
Facility's Phone: 716-754-8231
U.S. EPA ID Number: NYD 049 836 679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE SOLID, NOS (D040, D043) 9, NA3077, PG III	XX1	DT	EST XX22	T	D040	D043	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
rec'd 543207

APPROVAL NY 30145 / SR# 940758-1 8164079

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true

Generator's/Offeror's Printed/Typed Name: William L. Schaffer
Signature:
Month: 10 Day: 12 Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ROBERT STAMISZ
Signature:
Month: 10 Day: 12 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty estimate & actual rec'd 543207

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Roberta Klode
Signature:
Month: 10 Day: 13 Year: 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

Cubic Yards
27.16 Tons

Receipt #

Trailer License Plate # and State

Service Req. # Profile # Permit #

Transporter Name Tractor/Trailer/Roll-off #

Driver's Name Generator

Scheduled Arrival: Date Time

Actual Arrival: Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify)

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarping

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Permanent Green & Canary: Waste Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD980523146
2. Page 1 of: 1
3. Emergency Response Phone: 1-800-262-8200
4. Manifest Tracking Number: 000186651 JJK

GENERATOR

5. Generator's Name and Mailing Address: COMMANDER TERMINAL HOLDINGS, LLC, 1 COMMANDER SQUARE, OYSTER BAY NY 11711
Generator's Site Address (if different than mailing address)
Generator's Phone:

6. Transporter 1 Company Name: HORWITH TRUCKS, INC — U.S. EPA ID Number: PAD 146 714 878
7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CWM- CHEMICAL SERVICES LLC, 1550 BALMER ROAD, MODEL CITY NY 14107 — U.S. EPA ID Number: NYD 049 836 679
Facility's Phone: 716-754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE SOLID, N.O.S. (D040, D043) 9, NA 3077, PG III	XX1	DT	CST XX22	T	D040	D043	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
rec'd 62340P
APPROVAL NY 301145 / SR#940758-2 81642083

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: William S. Moriffin — Signature — Month 12 Day 12 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: FOR HORWITH TRUCKS INC ROBERT DENSMORE — Signature — Month 10 Day 12 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
City estimated/actual rec'd 62340P
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klocke — Signature — Month 10 Day 13 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

Public Vaults

Receipt # | Trailer License Plate # and State

31.17 Tons

Service Req. # | Profile # | Permit #

Transporter Name | Tractor/Trailer/Roll-off #

Driver's Name | Generator

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarping
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify)

Security Guard Initials: _____
(indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accounting Pink: Environmental Goldenrod: Driver

HORWITH TRUCKS, INC.

ROUTE 329 BOX 7, NORTHAMPTON, PA 18067
1-800-220-8807

MANIFEST # 200186650

TRUCK # 511 TR # Dump w/ Liner

DRIVER R. Stanetz

PICK UP: 10/12 / 7A / _____ _____
DATE / TIME / WO # PO #

NAME: Commander Terminal CODE

ADDRESS: _____

Oyster Bay, NY

TIME IN: 7:00 AM TIME OUT: 1:30 PM TOTAL TIME: 6 1/2 HR $ _____

DELAY EXPLANATION: _____

AND LUNCH - JS

SIGNATURE: (PICK-UP)

RE-MANIFEST: _____
NAME ADDRESS

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (INTERMEDIATE)

UNLOAD: 10/13 / _____
DATE / TIME

☐ OTHER _____ $ _____

CWM ☑	GROWS ☐	MICHIGAN ☐ DISPOSAL	AMERICAN ☐ LANDFILL	CLEAN ☐ HARBORS	SUPERIOR ☐ ONYX
Model City, NY	Morrisville, PA	Belleville, MI	Waynesburg, OH	Corunna, Ontario, Canada	Kersey, PA

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (UNLOADING SITE)

$ _____ $ _____

Tr # 114

HORWITH TRUCKS, INC.

ROUTE 329 BOX 7, NORTHAMPTON, PA 18067
1-800-220-8807

MANIFEST # 000 186651

TRUCK # 517 TR # Dump Trailer

DRIVER R. Dewsnap

PICK UP: 10/12 / 8A / _____ / _____
DATE / TIME / WO # / PO #

NAME: Commander Terminal CODE

ADDRESS: _____

Oyster Bay, NY

TIME IN: 0790 TIME OUT: 3:30 TOTAL TIME: _____ $ _____

DELAY EXPLANATION: Job Not Ready Loading Very Slowly EPA Officials All Over Site Causing Back To Back Delays And Lunch

SIGNATURE: (PICK-UP)

RE-MANIFEST: _____
NAME ADDRESS

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (INTERMEDIATE)

UNLOAD: 10/13 / _____
DATE TIME

☐ OTHER _____ $ _____

CWM ☑	GROWS ☐	MICHIGAN DISPOSAL ☐	AMERICAN LANDFILL ☐	CLEAN HARBORS ☐	SUPERIOR ONYX ☐
Model City, NY	Morrisville, PA	Belleville, MI	Waynesburg, OH	Corunna, Ontario, Canada	Kersey, PA

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (UNLOADING SITE)

$ _____ $ _____

#140

HORWITH TRUCKS, INC.

ROUTE 329 BOX 7, NORTHAMPTON, PA 18067
1-800-220-8807

MANIFEST # _____

TRUCK # 140 TR # 120

DRIVER Dennis Silfies

S E T Express Inc. Horwith Trucks

PICK UP: 10-12-10 / 7:00 / _____ _____
DATE TIME WO # PO #

NAME: American Environmental Svc Corp CODE

ADDRESS: 188 Long Island Ave Wyandanch N.Y. 11798

_____

TIME IN: 7:00 Am TIME OUT: 1:00 pm TOTAL TIME: 5 Hrs $ _____

DELAY EXPLANATION: Job Not Ready to Working Stood on Job Roadway AND Lunch

SIGNATURE: (PICK-UP)

RE-MANIFEST: _____
NAME ADDRESS

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (INTERMEDIATE)

UNLOAD: _____ / _____
DATE TIME

❑ OTHER _____ $ _____

CWM ❑	GROWS ❑	MICHIGAN ❑ DISPOSAL	AMERICAN ❑ LANDFILL	CLEAN ❑ HARBORS	SUPERIOR ❑ ONYX
Model City, NY	Morrisville, PA	Belleville, MI	Waynesburg, OH	Corunna, Ontario, Canada	Kersey, PA

TIME IN: _____ TIME OUT: _____ TOTAL TIME: _____ $ _____

DELAY EXPLANATION: _____

SIGNATURE: (UNLOADING SITE)

$ _____ $ _____

APPENDIX D

Photographs

Commander Oil Terminal
One Commander Square
Oyster Bay, New York

Photograph No. 1
Area to be excavated, facing east

Photograph No. 2
Beginning of excavation - breakout of asphalt facing west

Commander Oil Terminal
One Commander Square
Oyster Bay, New York

Photograph No. 3
Excavation area with Rusmar vapor reduction foam applied, facing west

Photograph No. 4
Excavated area backfilled and compacted with fill material, facing west

Commander Oil Terminal
One Commander Square
Oyster Bay, New York

Photograph No. 5
Discrete Sampling and soil boring locations, facing west